

CATALOG NO. 51

• LINOTYPE •

PARTS CATALOG

ASSEMBLING AND DISTRIBUTING
MECHANISMS FOR BLUE STREAK LINOTYPE

MODELS 5, 29, 30, 31 and 32

MERGENTHALER LINOTYPE COMPANY







**PARTS CATALOG FOR ASSEMBLING
AND DISTRIBUTING MECHANISMS
FOR BLUE STREAK LINOTYPES**

MODELS 5 · 29 · 30 · 31 · 32

CATALOG NO. 51

MERGENTHALER LINOTYPE COMPANY, 29 Ryerson St., Brooklyn 5, N. Y.

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AGENCIES

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• LINOTYPE •

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GENERAL INFORMATION

This catalog covers the Assembling and Distributing mechanisms of Blue Streak Linotype Models 5, 29, 30, 31 and 32. The parts are arranged in two groups of mechanisms: Assembling and Distributing. These are further subdivided into numerous individual mechanisms.

For the Casting and Driving mechanisms, consult the catalog covering these two groups of mechanism for all Blue Streak Linotypes.

The index to Mechanisms is arranged in alphabetical order under two main groups. The Index to Parts is arranged in alphabetical and numerical order and is found at the end of this book.

SPECIAL FEATURES

Assembly Drawings and Detail Pages

The large drawings and photographs of assembled parts, to be used with their detail pages directly following, are intended as an additional help in locating individual parts within a given assembly. However, a word of caution is needed in this respect. The user will do well to heed the note at the bottom of the assembly drawings: "Check parts by referring to detail pages." In the interest of simplicity we have not attempted to show part changes on the drawings. That is a function of the detail pages. It is to these one must refer to determine from the photograph, and the description on the corresponding right-hand page, whether the part number selected is the correct one. Changes in a given part are shown alongside of each other. Parts that go together are shown together in so far as that plan is possible. Screws, dowels, nuts, washers are placed with the

parts into which they assemble and will be found to carry names of similar nature.

A brief study of this catalog will familiarize the user with its basic plan, will reduce the effort needed to locate a part and at the same time insure correct ordering.

Screws—Dowels—Nuts

These have been purposely reproduced on a somewhat larger scaling basis than the other parts in order to facilitate ready recognition. Were they scaled down to be in proportion to the parts into which they assemble, small screws would lose all shape and become mere dots on the printed page. It will be noticed that these parts, with the exception of special shoulder screws which readily identify themselves by their shape, carry dimensions after their names on the right-hand pages. With screws, the first dimension refers to the diameter, the second to the threads per inch, and the third to the length under the head. With dowels, the first dimension refers to the diameter (taper dowels, the largest diameter), the second to the length. With nuts, the first two dimensions refer to the diameter and threads per inch of the screws on which the nut fits, the third to the distance across the flat.

In the case of some screws, the diameter is given in the form of a standard number, as 4, 6, 10, etc. Since these numbers are not readily interpreted by many persons, a list of their equivalents in decimals of an inch is shown below:

2.....	.086"	6.....	.138"
3.....	.099"	8.....	.164"
4.....	.112"	10.....	.190"
5.....	.125"	14.....	.242"

CONVERSION TABLES AND DIMENSIONAL DATA

The following conversion tables should prove helpful when consulting dimensions:

Fractions of an inch	Decimals of an inch	Milli-meters	Fractions of an inch	Decimals of an inch	Milli-meters
$\frac{1}{16}$.....	.015625	.397	$\frac{23}{32}$.....	.515625	13.097
$\frac{1}{8}$.....	.03125	.794	$\frac{25}{32}$.....	.53125	13.494
$\frac{3}{16}$.....	.046875	1.191	$\frac{27}{32}$.....	.546875	13.891
$\frac{1}{4}$.....	.0625	1.588	$\frac{29}{32}$.....	.5625	14.288
$\frac{5}{16}$.....	.078125	1.984	$\frac{31}{32}$.....	.578125	14.684
$\frac{3}{8}$.....	.09375	2.381	$\frac{1}{2}$.....	.59375	15.081
$\frac{7}{16}$.....	.109375	2.778	$\frac{51}{64}$.....	.609375	15.478
$\frac{1}{2}$.....	.125	3.175	$\frac{1}{8}$.....	.625	15.875
$\frac{9}{16}$.....	.140625	3.572	$\frac{11}{64}$.....	.640625	16.272
$\frac{5}{8}$.....	.15625	3.969	$\frac{13}{64}$.....	.65625	16.669
$\frac{11}{16}$.....	.171875	4.366	$\frac{15}{64}$.....	.671875	17.066
$\frac{3}{4}$.....	.1875	4.763	$\frac{17}{64}$.....	.6875	17.463
$\frac{13}{16}$.....	.203125	5.159	$\frac{19}{64}$.....	.703125	17.859
$\frac{7}{8}$.....	.21875	5.556	$\frac{21}{64}$.....	.71875	18.256
$\frac{15}{16}$.....	.234375	5.953	$\frac{23}{64}$.....	.734375	18.653
$\frac{1}{8}$.....	.250	6.350	$\frac{25}{64}$.....	.750	19.050
$\frac{9}{16}$.....	.265625	6.747	$\frac{27}{64}$.....	.765625	19.447
$\frac{5}{8}$.....	.28125	7.144	$\frac{29}{64}$.....	.78125	19.844
$\frac{11}{16}$.....	.296875	7.541	$\frac{31}{64}$.....	.796875	20.241
$\frac{3}{4}$.....	.3125	7.938	$\frac{1}{4}$.....	.8125	20.638
$\frac{13}{16}$.....	.328125	8.334	$\frac{21}{32}$.....	.828125	21.034
$\frac{7}{8}$.....	.34375	8.731	$\frac{23}{32}$.....	.84375	21.431
$\frac{15}{16}$.....	.359375	9.128	$\frac{25}{32}$.....	.859375	21.828
$\frac{1}{4}$.....	.375	9.525	$\frac{27}{32}$.....	.875	22.225
$\frac{5}{16}$.....	.390625	9.922	$\frac{29}{32}$.....	.890625	22.622
$\frac{3}{8}$.....	.40625	10.319	$\frac{31}{32}$.....	.90625	23.019
$\frac{1}{2}$.....	.421875	10.716	$\frac{1}{2}$.....	.921875	23.416
$\frac{5}{8}$.....	.4375	11.113	$\frac{11}{16}$.....	.9375	23.813
$\frac{3}{4}$.....	.453125	11.509	$\frac{13}{16}$.....	.953125	24.209
$\frac{7}{8}$.....	.46875	11.906	$\frac{15}{16}$.....	.96875	24.606
$\frac{15}{16}$.....	.484375	12.303	$\frac{17}{16}$.....	.984375	25.003
$\frac{1}{8}$.....	.500	12.700	1.....	1.000	25.400

Inches	Centimeters	Inches	Centimeters	Inches	Centimeters
0.3937....	1.	2.....	5.080	4.....	10.160
0.7874....	2.	2.3622....	6.	5.....	12.700
1.....	2.540	2.7559....	7.	6.....	15.240
1.1811....	3.	3.....	7.620	7.....	17.780
1.5748....	4.	3.1496....	8.	8.....	20.320
1.9685....	5.	3.5433....	9.	9.....	22.860

Tables

With several mechanisms there are accompanying tables. As in the case of a verge, the user should consult the escapement mechanism page to identify the part by photograph and part number. He will then be referred to a table which will identify the size of the verge according to the channel number for which it is desired. In this manner the tables augment their respective mechanisms.

Attention is particularly called to the Tables of Screws, Dowels, Nuts, Hooks, Washers and Springs, beginning on page 397. Herein will be found complete dimensional data providing for the ready identification of any of these most numerous of Linotype parts.

Notes Appearing with Part Numbers

30 Em and 28 Cicero

All parts listed may be used on both 30-em and 28-cicero machines except where a note (28 cicero) follows a part number, in which case that part is applicable to 28-cicero machines only. These 28-cicero parts replace the corresponding 30-em parts of the same name.

72-90

This designation refers to the 72-90 Model 29 and 30 Linotypes using combinations of magazines on the main side, employing different number of channels as indicated.

INSTRUCTIONS FOR ORDERING

1. Always use standard Linotype order forms, which are supplied in any quantity free on request.
2. State plainly the letter, number, and full name of part desired. Give firm name and address in full. Be sure to sign all orders.
3. Always give the model and serial number of the Linotype for which parts are required. The model and serial number appear on the patent plate of the machine.
4. Electric Pots: On orders for heating units or other supplies, specify serial number of pot, and give current characteristics.
5. Motors: For supply parts give make, whether geared or belted, voltage and serial number. For alternating current motor specify voltage, cycle and phase.
6. If unable to find an illustration in the catalog of the part desired, or if in doubt between two or more illustrations, please make a rough sketch of what is wanted, stating where it is used, and its function.
7. Give shipping instructions: Freight, express, parcel post or air service. If freight, state preferred route of shipment.
8. Special and careful attention is given to the inspection, packing and shipping of all parts and supplies. Goods sent by parcel post, valued at \$1.00 or more, will be insured at our expense.
9. Parts and supplies furnished in accordance with written orders are not returnable for credit. If for any reason it is necessary to return goods, they should be insured if sent by parcel post. A little forethought exercised by the one who prepares the order will be the means of saving money as well as time.

DAMAGE OR LOSS IN TRANSIT

When express or freight shipments are delivered by us to the transportation company, our responsibility ceases. Although we will render every assistance to trace and recover lost goods and collect just claims, it is done merely as an act of business courtesy on our part. Such claims are not to be deducted from our invoice and payment should not be withheld awaiting adjustment of such claims, as the transportation company is alone responsible to the consignee for safe delivery.

Damage or Loss:

If shipment is not delivered to you in good order and in accordance with quantity shown on Bill-of-Lading, have the shortage or damage noted by Carriers Agent on receipt or Freight Bill.

If you accept shipment from transportation company short of what is enumerated on Bill-of-Lading, or damaged, without having proper notations made by the Carriers Agent, you do so at your own risk.

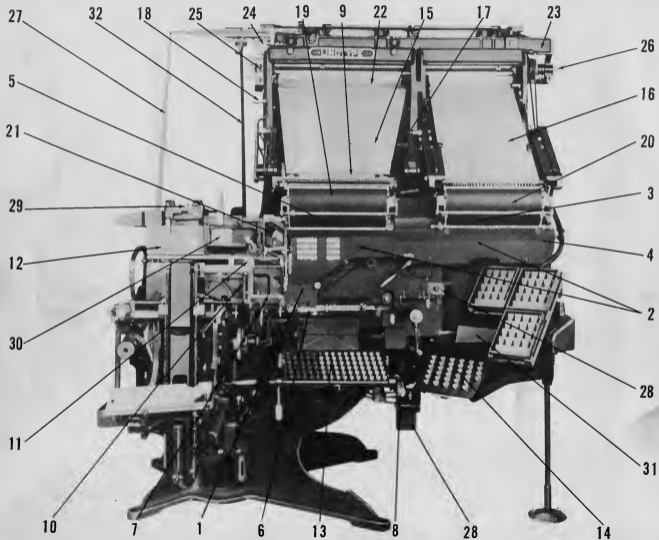
Damage Discovered While Unpacking:

If any damage is discovered when unpacking leave in the exact condition, until the Carriers Agent examines the same and makes a notation on your Freight Bill, of concealed damage.

File Claims Promptly:

The transportation company will not consider claims unless presented within four months from date of shipment of goods.

KEY TO MECHANISMS



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ASSEMBLING MECHANISM

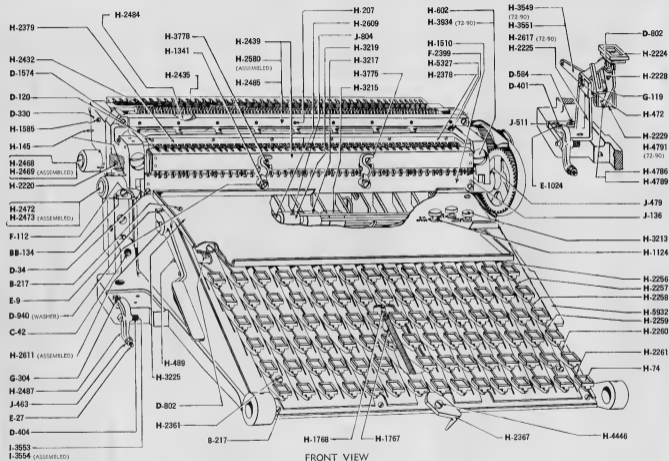
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(30)
 H-5527 (29) (72-90)
 (30) (72-90)

FROM SERIAL NO. 57100
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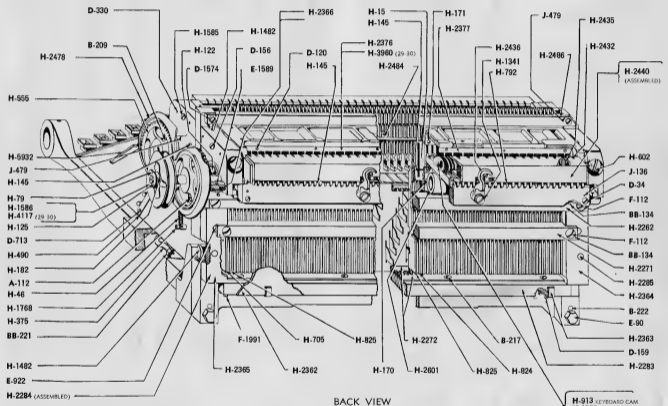
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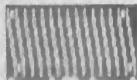
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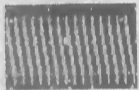
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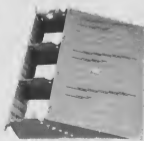
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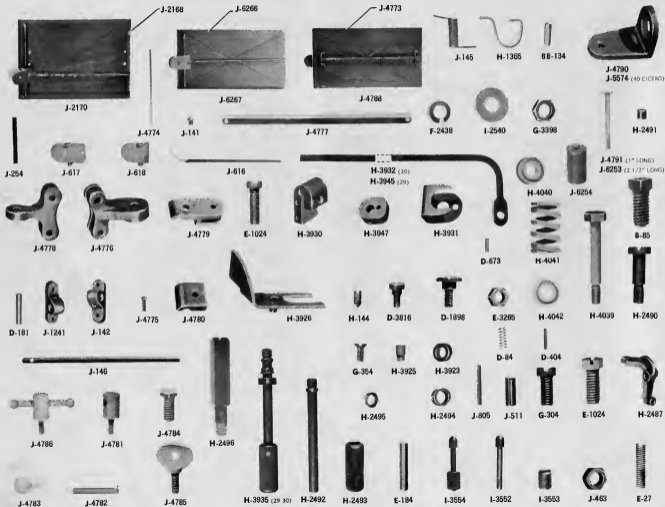
Assembling Mechanism

Models 5-29-30-31-32

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Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 5-29-30-31-32

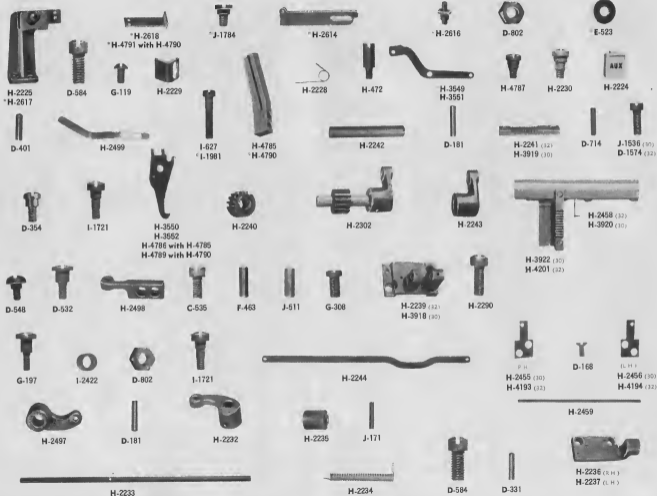
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H-3925 Keyboard locking rod stop pin	29-30	J-4786 Copy holder support adjusting screw, assembled	5-29-30-31-32
H-3926 Keyboard locking screw lock rod support, assembled	29-30	J-4788 Copy holder, assembled	5-29-30-31-32
H-3930 Keyboard locking screw lock rod support anchor block	29-30	J-4790 Copy holder support bracket	5-29-30-31-32
H-3931 Keyboard locking screw lock rod eccentric	30	J-4791 Copy holder support bracket pivot screw	5-29-30-31-32
H-3932 Keyboard locking screw lock rod	30	J-5574 Copy holder support bracket (40 cicero)	29 31
H-3935 Keyboard locking screw, assembled	29-30	J-6253 Copy holder support bracket pivot screw	30
H-3945 Keyboard locking screw lock rod	29	J-6254 Copy holder support bracket pivot screw spacing collar	30
H-3947 Keyboard locking screw lock rod eccentric	29	J-6266 Copy holder plate	5-29-30-31-32
H-4039 Keyboard pivot screw (with spring)	5-29-30-31-32	J-6267 Copy holder, assembled	5-29-30-31-32
H-4040 Keyboard pivot screw spring washer, upper	5-29-30-31-32		
H-4041 Keyboard pivot screw spring	5-29-30-31-32		
H-4042 Keyboard pivot screw spring washer, lower	5-29-30-31-32		
I-2540 Copy holder support bracket pivot screw washer	5-29-30-31-32		
I-3552 Assembling elevator lever detent	5-29-30-31-32		

Parts Not Illustrated

J-4787 Copy holder support, assembled	5-29-30-31-32
J-4789 Copy holder and support, assembled	5-29-30-31-32
J-6255 Copy holder support, assembled	30
J-6256 Copy holder and support, assembled	30

Please Give Model and Serial Number When Ordering



*These parts are only for (72-90) machines

Assembling Mechanism

Models 30-32

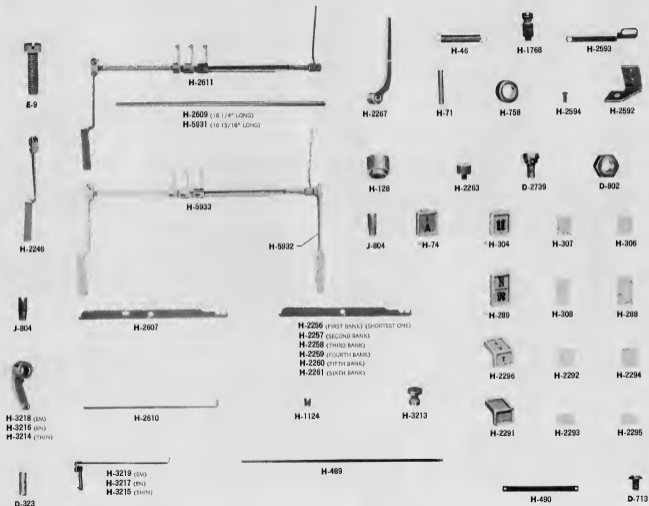
Keyboard Key Rod Shifter 9

C- 535 Keyboard rod shift key link support screw 10-32 x 3/8"	30-32	H-2290 Keyboard rod shifter screw, long 1/4"-24 x 5/8"	30-32
D- 168 Keyboard rod shifter end piece screw 4-48 x 1/4"	30-32	H-2302 Keyboard rod shift gear shaft gear and lever, assembled	30-32
D- 181 Keyboard rod shifter gear lever pin 1/8" x 5/8"	30-32	H-2455 Keyboard rod shifter end piece, r.h.	30
D- 181 Keyboard rod shift key link lever pin 1/8" x 5/8"	30-32	H-2456 Keyboard rod shifter end piece, l.h.	30
D- 331 Keyboard rod shift key link lever shaft bracket, r.h. and l.h., dowel 1/8" x 9/16"	30-32	H-2458 Keyboard rod shifter	32
D- 354 Keyboard rod shift key link, lower, screw	30-32	H-2459 Keyboard rod shifter gib	30-32
D- 401 Keyboard rod shift key bracket dowel 1/8" x 7/16"	30-32	H-2497 Keyboard rod shift key link lever	30-32
D- 532 Keyboard rod shift key link connecting screw	30-32	H-2498 Keyboard rod shift key link support	30-32
D- 548 Keyboard rod shift key link screw	30-32	H-2499 Keyboard rod shift key link	30-32
D- 584 Keyboard rod shift key bracket screw 1/4"-34 x 1/2"	30-32	H-2614 Keyboard rod shift key link (72-90)	30
D- 584 Keyboard rod shift key link lever shaft bracket, r.h. and l.h., screw 1/4"-24 x 1/2"	30-32	H-2616 Keyboard rod shift key link stud (72-90)	30
D- 714 Keyboard rod shifter gear rack dowel 3/32" x 1/2"	30-32	H-2617 Keyboard rod shift key bracket (72-90)	30
D- 802 Keyboard rod shift key extension screw nut 8-32 x 5/16"	30-32	H-2618 Keyboard rod shift key extension detent (72-90)	30
D- 802 Keyboard rod shifter gear lever link, upper, screw nut 8-32 x 5/16"	30-32	H-3549 Keyboard rod shift key (72-90)	30
D- 802 Keyboard rod shifter gear lever link, lower, screw nut 8-32 x 5/16"	30-32	H-3550 Keyboard rod shift key extension (72-90)	30
D- 802 Keyboard rod shift key link, upper, screw nut 8-32 x 5/16"	30-32	H-3551 Keyboard rod shift key	30-32
D- 802 Keyboard rod shift key link, lower, screw nut 8-32 x 5/16"	30-32	H-3552 Keyboard rod shift key extension	30-32
D- 802 Keyboard rod shift key link, stud nut 8-32 x 5/16" (72-90)	30	H-3918 Keyboard rod shifter guide	30
D-1574 Keyboard rod shifter gear rack screw 10-32 x 1/2"	32	H-3919 Keyboard rod shifter gear rack	30
E- 523 Keyboard rod shift key link stud washer (72-90)	30	H-3920 Keyboard rod shifter	30
F- 463 Keyboard rod shifter guide dowel, long 3/16" x 5/8"	30-32	H-3922 Keyboard rod shifter gear rack and gib, assembled	30
G- 119 Keyboard rod shifter key extension detent screw 6-48 x 1/4"	30-32	H-4193 Keyboard rod shifter end piece, r.h.	32
G- 197 Keyboard rod shift key link, upper, screw	30-32	H-4194 Keyboard rod shifter end piece, l.h.	32
G- 308 Keyboard rod shifter screw, short 1/4"-24 x 7/16"	30-32	H-4201 Keyboard rod shifter gear rack and gib, assembled	32
H- 472 Keyboard rod shift key screw	30-32	H-4785 Keyboard rod shift key guide	30-32
H-2224 Keyboard rod shift key button	30-32	H-4786 Keyboard rod shift key extension	30-32
H-2225 Keyboard rod shift key bracket	30-32	H-4787 Keyboard rod shift key extension screw	30-32
H-2228 Keyboard rod shift key extension spring	30-32	H-4789 Keyboard rod shift key extension (72-90)	30
H-2229 Keyboard rod shift key extension detent	30-32	H-4790 Keyboard rod shift key guide (72-90)	30
H-2230 Keyboard rod shift key extension screw	30-32	H-4791 Keyboard rod shift key extension detent (72-90)	30
H-2232 Keyboard rod shift key link lever link lever	30-32	I- 627 Keyboard rod shift key extension detent and key shift guide screw 6-48 x 3/4"	30-32
H-2233 Keyboard rod shift key link lever shaft	30-32	I-1721 Keyboard rod shifter gear lever link, upper, screw	30-32
H-2234 Keyboard rod shift key link lever shaft spring	30-32	I-1721 Keyboard rod shifter gear lever link, lower, screw	30-32
H-2235 Keyboard rod shift key link lever shaft spring collar	30-32	I-1981 Keyboard rod shift key extension detent and key shift guide screw (72-90) 6-48 x 5/16"	30-32
H-2236 Keyboard rod shift key link lever shaft bracket, r.h.	30-32	I-2422 Keyboard rod shift key link, upper, screw washer	30-32
H-2237 Keyboard rod shift key link lever shaft bracket, l.h.	30-32	J- 171 Keyboard rod shift key link lever shaft spring collar pin .085 x 15/32"	30-32
H-2239 Keyboard rod shifter guide	32	J- 511 Keyboard rod shifter guide dowel, short 3/16" x 1/2"	30-32
H-2240 Keyboard rod shifter gear	30-32	J-1536 Keyboard rod shifter gear rack screw 10-32 x 1/2"	30
H-2241 Keyboard rod shifter gear rack	32	J-1784 Keyboard rod shift key link screw (72-90)	30
H-2242 Keyboard rod shifter gear shaft	30-32		
H-2243 Keyboard rod shifter gear lever	30-32		
H-2244 Keyboard rod shifter gear lever link	30-32		

Parts Not Illustrated

H-2579 Keyboard rod shift key link lever shaft and lever, assembled 30-32

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 5-29-30-31-32

Keyboard Key 11

D- 323 Thin space key lever operating lever pin 1/8" x 13/32"	5-29-30-31-32	H-2267 Spaceband key bar arm, assembled	5-29-30-31-32
D- 323 En space key lever operating lever pin 1/8" x 13/32"	5-29-30-31-32	H-2291 Keyboard key button, double face	29-30-31-32
D- 323 Em space key lever operating lever pin 1/8" x 13/32"	5-29-30-31-32	H-2292 Keyboard key button, double face, paper, large	29-30-31-32
D- 713 Keyboard key lever fulcrum rod keeper		H-2293 Keyboard key button, double face, paper, small	29-30-31-32
screw 4-48 x 5/32"	5-29-30-31-32	H-2294 Keyboard key button, double face, cover, large	29-30-31-32
D- 802 Keyboard spaceband key locking bar screw		H-2295 Keyboard key button, double face, cover, small	29-30-31-32
nut 8-32 x 5/16"	5-29-30-31-32	H-2296 Keyboard key button, double face, assembled	29-30-31-32
D-2739 Keyboard spaceband key locking bar screw	5-29-30-31-32	H-2592 Keyboard spaceband key locking bar bracket	5-29-30-31-32
E- 9 Spaceband key screw 1/4"-24 x 7/8"	5-29-30-31-32	H-2593 Keyboard spaceband key locking bar	5-29-30-31-32
H- 46 Spaceband key bar arm spring	5-29-30-31-32	H-2594 Keyboard spaceband key locking bar bracket rivet	5-29-30-31-32
H- 71 Spaceband key bar arm pin	5-29-30-31-32	H-2607 Keyboard key lever, second bank, thin space	5-29-30-31-32
H- 74 Keyboard key button	5-29-30-31-32	H-2607 Keyboard key lever, second bank, em space	5-29-30-31-32
H- 128 Spaceband key bar arm bushing	5-29-30-31-32	H-2607 Keyboard key lever, second bank, em space	5-29-30-31-32
H- 288 Keyboard key button, special combination, cover	29-30-31-32	H-2609 Spaceband key hinge rod	5-29-30-31-32
H- 289 Keyboard key button, special combination, assembled	29-30-31-32	H-2610 Thin space key lever operating lever extension	5-29-30-31-32
H- 304 Keyboard key button, special, assembled	29-30-31-32	H-2610 En space key lever operating lever extension	5-29-30-31-32
H- 306 Keyboard key button, special, cover	29-30-31-32	H-2610 Em space key lever operating lever extension	5-29-30-31-32
H- 307 Keyboard key button, special, paper	29-30-31-32	H-2611 Spaceband key hinge rod, assembled	5-29-30-31-32
H- 308 Keyboard key button, special combination, paper	29-30-31-32	H-3213 Thin space key lever operating lever extension knob	5-29-30-31-32
H- 489 Keyboard key lever fulcrum rod	5-29-30-31-32	H-3213 En space key lever operating lever extension knob	5-29-30-31-32
H- 490 Keyboard key lever fulcrum rod keeper	5-29-30-31-32	H-3213 Em space key lever operating lever extension knob	5-29-30-31-32
H- 758 Spaceband key hinge rod collar	5-29-30-31-32	H-3214 Thin space key lever operating lever	5-29-30-31-32
H-1124 Thin space key lever operating lever extension knob		H-3215 Thin space key lever operating lever, assembled	5-29-30-31-32
set screw 4-48 x 1/8"	5-29-30-31-32	H-3216 En space key lever operating lever	5-29-30-31-32
H-1124 En space key lever operating lever extension knob		H-3217 En space key lever operating lever, assembled	5-29-30-31-32
set screw 4-48 x 1/8"	5-29-30-31-32	H-3218 Em space key lever operating lever	5-29-30-31-32
H-1124 Em space key lever operating lever extension knob		H-3219 Em space key lever operating lever, assembled	5-29-30-31-32
set screw 4-48 x 1/8"	5-29-30-31-32	H-5931 Spaceband key hinge rod	30 32
H-1768 Spaceband key bar arm spring screw	5-29-30-31-32	H-5932 Spaceband key, auxiliary	30 32
H-2246 Spaceband key	5-29-30-31-32	H-5933 Spaceband key hinge rod, assembled	30 32
H-2256 Keyboard key lever, first bank	5-29-30-31-32	J- 804 Thin space key lever operating lever	
H-2257 Keyboard key lever, second bank	5-29-30-31-32	screw 8-32 x 13/32"	5-29-30-31-32
H-2258 Keyboard key lever, third bank	5-29-30-31-32	J- 804 En space key lever operating lever	
H-2259 Keyboard key lever, fourth bank	5-29-30-31-32	screw 8-32 x 13/32"	5-29-30-31-32
H-2260 Keyboard key lever, fifth bank	5-29-30-31-32	J- 804 Em space key lever operating lever	
H-2261 Keyboard key lever, sixth bank	5-29-30-31-32	screw 8-32 x 13/32"	5-29-30-31-32
H-2263 Spaceband key lever stop pin	29-30-31-32		

Please Give Model and Serial Number When Ordering



H-2473 (FRONT) (CEYLON RED)
H-4781 (FRONT) (BLACK)



H-2466
H-2467



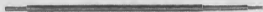
H-2469 (BACK) (CEYLON RED)
H-4782 (BACK) (BLACK)



H-2472 (FRONT)



H-122



H-2468 (BACK)



H-566 (CORRUGATED WHITE)
H-2601 (CEYLON RED)
H-3929 (CEYLON RED) (1/32" O. OVERSIZE)
H-4780 (BLACK)



J-479



H-4770 (DILITE)



H-144



H-2897



H-2478



H-2612



H-3933 (30)
H-3946 (29)



C-476



C-1281



H-555



A-112



B-209



F-112



H-4117 (3/4" WIDE)



H-5509



H-5693



H-1585 (3/8" WIDE)



H-125



H-182



H-79

Assembling Mechanism

Models 5-29-30-31-32

Keyboard Cam Rubber Roll 13

A- 112 Keyboard cam rubber roll shaft gear guard screw 8-32 x 3/8"	5-29-30-31-32	H-2472 Keyboard cam rubber roll shaft, front	5-29-30-31-32
B- 209 Keyboard cam rubber roll shaft gear set screw 1/4"-24 x 5/18"	5-29-30-31-32	H-2473 Keyboard cam rubber roll shaft, front, assembled (ceylon red)	29-30-31-32
C- 476 Keyboard driving belt hook	5-29-30-31-32	H-2478 Keyboard cam rubber roll shaft gear guard	5-31-32
C-1281 Keyboard driving belt, assembled	5-29-30-31-32	H-2601 Keyboard cam rubber roll (ceylon red)	29-30-31-32
F- 112 Keyboard cam rubber roll shaft gear guard plate screw 14-24 x 3/8"	29-30	H-2612 Keyboard cam rubber roll shaft gear guard	29-30
H- 79 Keyboard cam rubber roll shaft pulley friction spring	5-29-30-31-32	H-2897 Rubber roll assembling tool, assembled	29-30-31-32
H- 122 Keyboard cam rubber roll shaft bushing	5-29-30-31-32	H-3929 Keyboard cam rubber roll (ceylon red) (1/32" oversize)	29-30-31-32
H- 125 Keyboard cam rubber roll shaft pulley friction collar	5-29-30-31-32	H-3933 Keyboard cam rubber roll shaft gear guard plate	30
H- 144 Keyboard cam rubber roll shaft bushing screw 8-32 x 5/16"	5-29-30-31-32	H-3946 Keyboard cam rubber roll shaft gear guard plate	29
H- 182 Keyboard cam rubber roll shaft pulley friction collar pin .106" x 13/16"	5-29-30-31-32	H-4117 Keyboard cam rubber roll shaft pulley (90)	29-30
H- 555 Keyboard cam rubber roll shaft gear	5-29-30-31-32	H-4770 Keyboard cam rubber roll shaft bracket, r.h., bushing (oilite)	5-29-30-31-32
H- 566 Keyboard cam rubber roll (corrugated white)	29-30-31-32	H-4780 Keyboard cam rubber roll (black rubber)	5-29-30-31-32
H-1586 Keyboard cam rubber roll shaft pulley	5-31-32	H-4781 Keyboard cam rubber roll shaft, front, assembled (black rubber)	5-29-30-31-32
H-1586 Keyboard cam rubber roll shaft pulley (72-90)	29-30	H-4782 Keyboard cam rubber roll shaft, back, assembled (black rubber)	5-29-30-31-32
H-2466 Keyboard cam rubber roll shaft oil collar (r.h.)	5-29-30-31-32	H-5509 Keyboard cam rubber roll shaft pulley	29-30
H-2467 Keyboard cam rubber roll shaft oil collar (l.h.)	5-29-30-31-32	H-5693 Keyboard cam rubber roll shaft pulley	30
H-2468 Keyboard cam rubber roll shaft, back	5-29-30-31-32	I- 479 Keyboard cam rubber roll shaft bushing pin 3/32" x 3/8"	29-30-31-32
H-2469 Keyboard cam rubber roll shaft, back, assembled (ceylon red)	29-30-31-32		

Please Give Model and Serial Number When Ordering



H-788 (FRONT)
H-789 (BACK)



F-2399



H-5327



H-4066



H-171



F-97



H-792



H-15



H-5513

H-145



H-3964



H-1585



D-330



H-2379 (FRONT) (L.H.)
H-2377 (BACK) (L.H.)



D-120



H-2376 (BACK) (R.H.) (29-32)
H-2378 (FRONT) (R.H.)
H-3960 (BACK) (R.H.) (29-30)



D-1402



H-170



H-1341



D-940



H-2436 (BACK)
H-3775 (FRONT)



H-3778 (FRONT)
H-533 (BACK)



H-533 (BACK)



H-4438



H-767 (FRONT)
H-768 (BACK)

H-5515 (FRONT)



H-5525 (FRONT)

H-3961 (BACK)



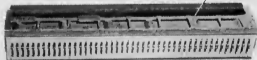
H-5512 (BACK)

H-887 (FRONT)



H-4432 (FRONT)

H-888 (BACK)



H-1001 (BACK) (29-31-32)
H-4087 (BACK) (29-30)

Assembling Mechanism

Models 5-29-30-31-32

Keyboard Cam Yoke Frame 15

D- 120	Keyboard cam stop strip screw 4-48 x .145"	5-29-30-31-32	H- 888	Keyboard cam yoke frame, back	5	31-32
D- 330	Keyboard cam yoke frame dowel 1/8" x 15/16"	5-29-30-31-32	H-1001	Keyboard cam yoke frame, back, assembled	5	31-32
D- 940	Keyboard cam yoke spring bar latch screw washer	5-29-30-31-32	H-1341	Keyboard cam yoke spring bar latch screw, lower	5-29-30-31-32	
D-1402	Keyboard cam yoke trigger hinge and hinge bar, front, bracket screw, short 8-32 x 7/18"	5-29-30-31-32	H-1585	Keyboard cam yoke frame screw 8-32 x 1"	5-29-30-31-32	
D-1402	Keyboard cam yoke trigger hinge and hinge bar, back, bracket screw, short 8-32 x 7/18"	5-29-30-31-32	H-2376	Keyboard cam stop strip, back, r.h.	5	31-32
F- 97	Keyboard cam yoke trigger hinge and hinge bar, front, bracket screw, long 8-32 x 5/8"	29-30-31-32	H-2377	Keyboard cam stop strip, back, l.h.	5-29-30-31-32	
F- 97	Keyboard cam yoke trigger hinge and hinge bar, back, bracket screw, long 8-32 x 5/8"	29-30-31-32	H-2378	Keyboard cam stop strip, front, r.h.	5-29-30-31-32	
F-2399	Keyboard spaceband cam stop pin nut	29-30	H-2379	Keyboard cam stop strip, front, l.h.	5-29-30-31-32	
H- 15	Keyboard cam yoke trigger	5-29-30-31-32	H-2436	Keyboard cam yoke spring bar latch	5-29-30-31-32	
H- 15	Keyboard spaceband cam yoke trigger	5-29-30-31-32	H-3775	Keyboard cam yoke spring bar latch, front	5-29-30-31-32	
H- 145	Keyboard cam yoke trigger locking rod	5-29-30-31-32	H-3778	Keyboard cam yoke spring bar latch, front, screw, upper	5-29-30-31-32	
H- 145	Keyboard cam yoke trigger hinge rod	5-29-30-31-32	H-3960	Keyboard cam stop strip, back, r.h.	29-30	
H- 170	Keyboard cam yoke guide plate, back and front rivet	5-29-30-31-32	H-3961	Keyboard cam yoke frame, back	29-30	
H- 171	Keyboard cam yoke frame rivet	5-29-30-31-32	H-3964	Keyboard cam yoke trigger hinge and hinge bar, front and back, bracket	5-29-30-31-32	
H- 533	Keyboard cam yoke spring bar latch screw, upper	5-29-30-31-32	H-4066	Spaceband cam stop pin	29-30	
H- 767	Keyboard cam yoke guide plate, front	5-29-30-31-32	H-4067	Keyboard cam yoke frame, back, assembled	29-30	
H- 768	Keyboard cam yoke guide plate, back	5-29-30-31-32	H-4432	Keyboard cam yoke frame, front, assembled	5-29-30-31-32	
H- 788	Keyboard cam yoke trigger hinge bar, front, assembled	5-29-30-31-32	H-4438	Keyboard cam yoke trigger hinge and hinge bar, back, bracket screw, long 8-32 x 5/8"	5-29-30-31-32	
H- 789	Keyboard cam yoke trigger hinge bar, back, assembled	5-29-30-31-32	H-4438	Keyboard cam yoke trigger hinge and hinge bar, front, bracket screw, long 8-32 x 5/8"	5-29-30-31-32	
H- 792	Keyboard cam yoke trigger hinge rod lug, front	5-29-30-31-32	H-5327	Keyboard spaceband cam stop pin, assembled	29-30	
H- 792	Keyboard cam yoke trigger hinge rod lug, back	29-30-31-32	H-5512	Keyboard cam yoke frame, back, assembled	29-30	
H- 887	Keyboard cam yoke frame, front	5-29-30-31-32	H-5513	Keyboard spaceband cam, front, yoke trigger	29-30	
			H-5515	Keyboard cam yoke frame, front	29-30	
			H-5525	Keyboard cam yoke frame, front, assembled	29-30	

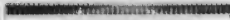
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H-2449 (FRONT)
H-2450 (BACK)
*H-5523 (FRONT) (29-30)



H-792



H-2439 (FRONT)
H-2440 (BACK)
*H-5524 (FRONT) (29-30)



J-1068



J-136



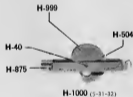
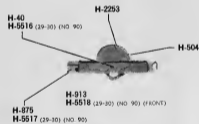
H-1327 (BACK)
H-1510 (FRONT)



H-2432



H-2435



H-2433
H-2434



H-145



D-34



H-2441 (BACK)
H-4057 (FRONT)



H-3765 (FRONT)

Assembling Mechanism

Models 5-29-30-31-32

Keyboard Cam Yoke Frame 17

D- 34	Keyboard cam yoke hinge bar screw 8-32 x 1/2"	5-29-30-31-32	H-2435	Keyboard cam yoke spring	5-29-30-31-32
H- 40	Keyboard cam yoke journal pin	5-29-30-31-32	H-2439	Keyboard cam yoke spring bar, front, assembled	5-29-30-31-32
H- 40	Keyboard spaceband cam yoke journal pin	5-29-30-31-32	H-2440	Keyboard cam yoke spring bar, back, assembled	5-29-30-31-32
H- 40	Keyboard spaceband cam, back, yoke journal pin	29-30	H-2441	Keyboard cam cover, back	5-29-30-31-32
H- 145	Keyboard cam yoke hinge rod	5-29-30-31-32	H-2449	Keyboard cam yoke spring bar, front, assembled	5-29-30-31-32
H- 504	Keyboard cam pin	5-29-30-31-32	H-2450	Keyboard cam yoke spring bar, back, assembled	5-29-30-31-32
H- 504	Keyboard spaceband cam pin	5 31-32	H-3765	Keyboard cam cover, front	5-29-30-31-32
H- 792	Keyboard cam yoke hinge rod lug, front	5-29-30-31-32	H-4057	Keyboard cam cover, front	5-29-30-31-32
H- 792	Keyboard cam yoke hinge rod lug, back	5-29-30-31-32	H-4116	Keyboard spaceband cam pin	29-30
H- 875	Keyboard cam yoke	5-29-30-31-32	H-5323	Keyboard spaceband cam, back, yoke	29-30
H- 875	Keyboard spaceband cam yoke	5 31-32	H-5516	Keyboard cam yoke journal pin (No. 90) front	29-30
H- 913	Keyboard cam and yoke, assembled	5-29-30-31-32	H-5517	Keyboard cam yoke (No. 90) front	29-30
H- 999	Keyboard spaceband cam, assembled	5 31-32	H-5518	Keyboard cam and yoke (No. 90) front, assembled	29-30
H-1000	Keyboard spaceband cam and yoke, assembled	5 31-32	H-5519	Keyboard spaceband cam yoke, front, journal pin	29-30
H-1327	Keyboard cam yoke hinge bar, back, assembled	5-29-30-31-32	H-5523	Keyboard cam yoke spring bar, front, assembled	29-30
H-1510	Keyboard cam yoke hinge bar, front, assembled	5-29-30-31-32	H-5524	Keyboard cam yoke spring bar, front, assembled	29-30
H-2253	Keyboard cam, assembled	5-29-30-31-32	H-5653	Keyboard spaceband cam, assembled	29-30
H-2432	Keyboard cam spring plunger	5-29-30-31-32	H-5654	Keyboard spaceband cam and yoke, back, assembled	29-30
H-2433	Keyboard cam yoke spring bar, front, hinge, r.h.	5-29-30-31-32	H-5655	Keyboard spaceband cam yoke, front	29-30
H-2433	Keyboard cam yoke spring bar, back, hinge, l.h.	5-29-30-31-32	H-5656	Keyboard spaceband cam and yoke, front, assembled	29-30
H-2434	Keyboard cam yoke spring bar, front, hinge, l.h.	5-29-30-31-32	J- 136	Keyboard cam yoke hinge bar dowel 1/16" x 1/2"	5-29-30-31-32
H-2434	Keyboard cam yoke spring bar, back, hinge, r.h.	5-29-30-31-32	J-1068	Keyboard cam yoke spring bar hinge rivet	5-29-30-31-32

Please Give Model and Serial Number When Ordering



H-2284



H-5508



H-5507 H-5491 H-705 H-824 H-825 H-2483 H-5730

A+250 (72-90) A+1675



H-2271



H-5510



H-2283



H-2272



H-2285



E-922



H-2364



H-2365



D-159



H-2363



H-2580



D-1574



H-207



H-2484



F-112



E-1589



H-2366



H-5697

(BACK) A+250 (72-90) A+1675

H-5495 A+250

(FRONT) H-5498 A+250 H-5697 (72-90) A+1675



H-2262



H-2485



H-2486



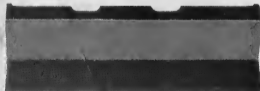
F-1991



J-3809



H-5526



H-2362



B-217



J-479



BB-134

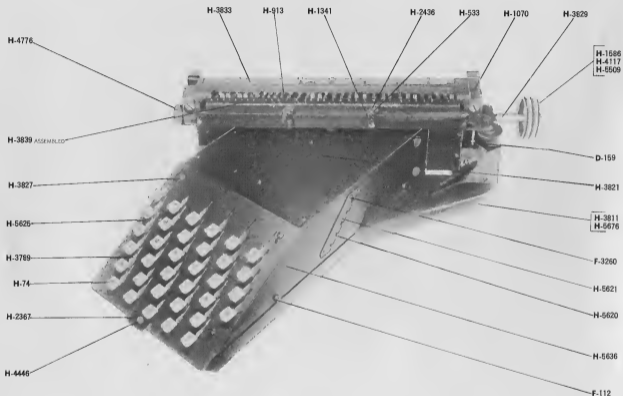
Assembling Mechanism

Models 5-29-30-31-32

Keyboard Key Bar and Rod Guide 19

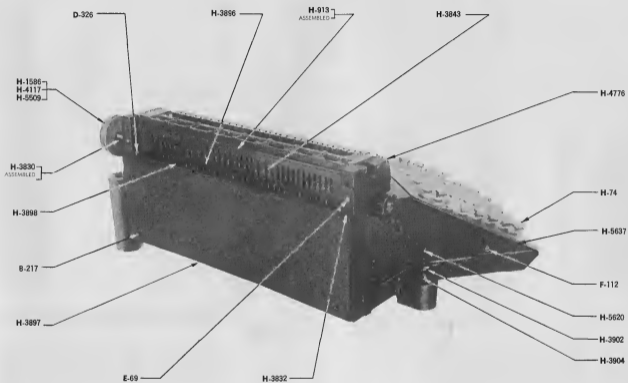
B- 217	Keyboard key bar guide, lower, screw 8-32 x 1/4"	5-29-30-31-32	H-2285	Keyboard key bar frame dowel	5-29-30-31-32
88-134	Keyboard key bar banking bar, lower, dowel 1/8" x 3/8"	5-29-30-31-32	H-2362	Keyboard key bar shield	5-29-30-31-32
88-134	Keyboard key bar banking bar, upper, dowel 1/8" x 3/8"	5-29-30-31-32	H-2363	Keyboard key bar shield clip	5-29-30-31-32
D- 159	Keyboard key bar shield clip screw 8-32 x 3/16"	5-29-30-31-32	H-2364	Keyboard key bar frame end piece, l.h.	5-29-30-31-32
D-1574	Keyboard rod guide, lower, bar screw 10-32 x 1/2"	5-29-30-31-32	H-2365	Keyboard key bar frame end piece, r.h.	5-29-30-31-32
D-1574	Keyboard rod banking bar, lower, screw 10-32 x 1/2"	5-29-30-31-32	H-2366	Keyboard key bar guide, upper	5-29-30-31-32
E- 922	Keyboard key bar frame end piece screw 5/16"-18 x 1 5/16"	5-29-30-31-32	H-2483	Keyboard rod, short	5-29-30-31-32
E-1589	Keyboard key bar guide, upper, screw 8-32 x 11/32"	5-29-30-31-32	H-2484	Keyboard rod guide, lower	5-29-30-31-32
F- 112	Keyboard key bar banking bar, lower, screw 14-24 x 3/8"	5-29-30-31-32	H-2485	Keyboard rod, short, guide bar	5-29-30-31-32
F- 112	Keyboard key bar banking bar, upper, screw 14-24 x 3/8"	5-29-30-31-32	H-2486	Keyboard rod banking bar, lower	5-29-30-31-32
F-1991	Keyboard key bar frame connecting bar screw 8-32 x 3/4"	5-29-30-31-32	H-2580	Keyboard rod guide, lower, assembled	5-29-30-31-32
H- 207	Keyboard rod guide, lower, screw 8-32 x 1/4"	5-29-30-31-32	H-5491	Keyboard spaceband key bar (No. 87)	29-30
H- 705	Keyboard spaceband key bar	5-29-30-31-32	H-5495	Keyboard rod, short, front (No. 87) assembled	29-30
H- 824	Keyboard key bar (first, third and fifth banks)	5-29-30-31-32	H-5498	Keyboard rod, short, back (No. 87) assembled	29-30
H- 825	Keyboard key bar (second, fourth and sixth banks)	5-29-30-31-32	H-5507	Keyboard spaceband, delayed, key bar	29-30
H-2262	Keyboard key bar banking bar, upper	5-29-30-31-32	H-5508	Keyboard key bar frame, assembled	29-30
H-2271	Keyboard key bar banking bar, lower	5-29-30-31-32	H-5510	Keyboard rod banking bar, lower	29-30
H-2272	Keyboard key bar guide, lower, back	5-29-30-31-32	H-5526	Keyboard rod, short, back, banking plate	29-30
H-2272	Keyboard key bar guide, lower, front	5-29-30-31-32	H-5697	Keyboard rod, short, spaceband, front, assembled (72-90)	29-30
H-2283	Keyboard key bar frame connecting bar	5-29-30-31-32	H-5698	Keyboard rod, short, spaceband, back, assembled (72-90)	29-30
H-2284	Keyboard key bar frame, assembled	5-29-30-31-32	H-5730	Keyboard rod, short, double "ee" (72-90)	29-30
			J- 479	Keyboard rod banking bar, lower, dowel 3/32" x 3/8"	5-29-30-31-32
			J-3809	Keyboard rod, short, back, banking plate screw 4-48 x 1/4"	29-30

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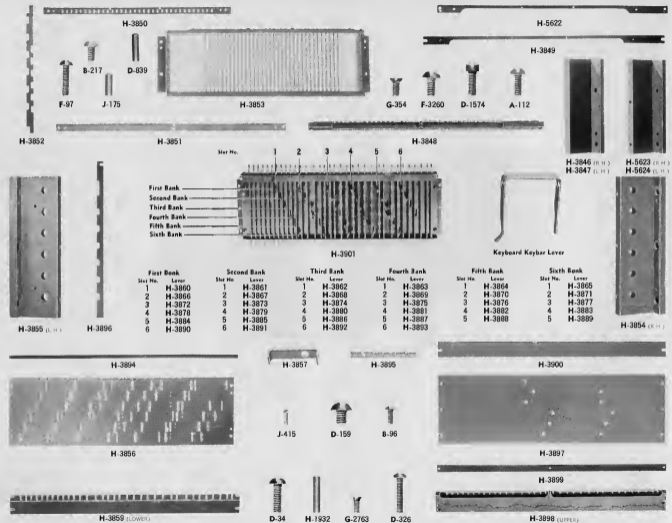


FRONT VIEW

 H-3905
 H-5677



BACK VIEW
 H-3905
 H-5677



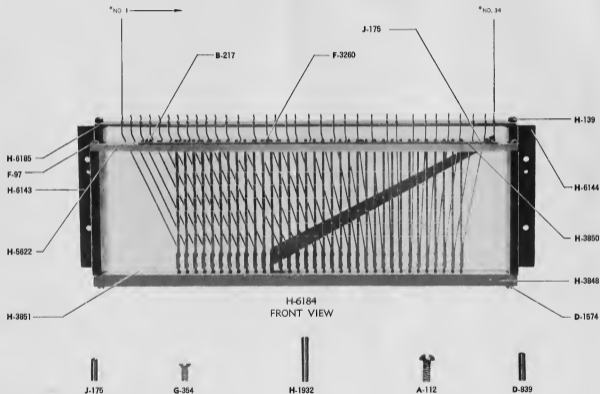
Assembling Mechanism

Models 30-32

Keyboard, Auxiliary 23

A- 112	Keyboard, auxiliary, key bar guide strip, lower, front, screw 8-32 x 3/8"	30-32	H-3867	Keyboard, auxiliary, key bar lever, 2nd bank No. 2	30-32
B- 96	Keyboard, auxiliary, key bar lever frame cover plate screw 4-48 x 1/4"	30-32	H-3868	Keyboard, auxiliary, key bar lever, 3rd bank No. 2	30-32
B- 217	Keyboard, auxiliary, key bar guide strip, upper, front, screw 8-32 x 1/4"	30-32	H-3869	Keyboard, auxiliary, key bar lever, 4th bank No. 2	30-32
B- 217	Keyboard, auxiliary, keyboard lever frame plate, screw 8-32 x 1/4"	30-32	H-3870	Keyboard, auxiliary, key bar lever, 5th bank No. 2	30-32
D- 34	Keyboard, auxiliary, key lever guide, lower, screw 8-32 x 1/2"	30-32	H-3871	Keyboard, auxiliary, key bar lever, 6th bank No. 2	30-32
D- 159	Keyboard, auxiliary, keyboard operating lever plate, screw 8-32 x 3/16"	30-32	H-3872	Keyboard, auxiliary, key bar lever, 1st bank No. 3	30-32
D- 326	Keyboard, auxiliary, key bar guide, upper, screw 8-32 x 3/4"	30-32	H-3873	Keyboard, auxiliary, key bar lever, 2nd bank No. 3	30-32
D- 839	Keyboard, auxiliary, key bar guide, upper, front, dowel 1/8" x 15/32"	30-32	H-3874	Keyboard, auxiliary, key bar lever, 3rd bank No. 3	30-32
D-1574	Keyboard, auxiliary, key bar guide, lower, front, screw 10-32 x 1/2"	30-32	H-3875	Keyboard, auxiliary, key bar lever, 4th bank No. 3	30-32
F- 97	Keyboard, auxiliary, key bar guide, upper, front, screw 8-32 x 5/8"	30-32	H-3876	Keyboard, auxiliary, key bar lever, 5th bank No. 3	30-32
F-3260	Keyboard auxiliary, key bar guide strip, upper, front, large, screw 6-32 x 3/16"	30-32	H-3877	Keyboard, auxiliary, key bar lever, 6th bank No. 3	30-32
F-3260	Keyboard, auxiliary, key bar lever fulcrum rod locking, screw 8-32 x 3/16"	30-32	H-3878	Keyboard, auxiliary, key bar lever, 1st bank No. 4	30-32
G- 354	Keyboard, auxiliary, key bar guide strip, lower, front, end, screw 8-48 x 5/16"	30-32	H-3879	Keyboard, auxiliary, key bar lever, 2nd bank No. 4	30-32
G-2763	Keyboard, auxiliary, key bar guide, upper, strip, screw 4-48 x 9/32"	30-32	H-3880	Keyboard, auxiliary, key bar lever, 3rd bank No. 4	30-32
H-1932	Keyboard, auxiliary, key bar guide, upper, dowel 1/8" x 5/8"	30-32	H-3881	Keyboard, auxiliary, key bar lever, 4th bank No. 4	30-32
H-1932	Keyboard, auxiliary, key bar guide, lower, front, dowel 1/8" x 5/8"	30-32	H-3882	Keyboard, auxiliary, key bar lever, 5th bank No. 4	30-32
H-3846	Keyboard, auxiliary, key bar frame bracket, r.h.	30-32	H-3883	Keyboard, auxiliary, key bar lever, 6th bank No. 4	30-32
H-3847	Keyboard, auxiliary, key bar frame bracket, l.h.	30-32	H-3884	Keyboard, auxiliary, key bar lever, 1st bank No. 5	30-32
H-3848	Keyboard, auxiliary, key bar guide, lower, front	30-32	H-3885	Keyboard, auxiliary, key bar lever, 2nd bank No. 5	30-32
H-3849	Keyboard, auxiliary, key bar guide, upper, front	30-32	H-3886	Keyboard, auxiliary, key bar lever, 3rd bank No. 5	30-32
H-3850	Keyboard, auxiliary, key bar guide strip, upper, front	30-32	H-3887	Keyboard, auxiliary, key bar lever, 4th bank No. 5	30-32
H-3851	Keyboard, auxiliary, key bar guide strip, lower, front	30-32	H-3888	Keyboard, auxiliary, key bar lever, 5th bank No. 5	30-32
H-3852	Keyboard, auxiliary, key bar	30-32	H-3889	Keyboard, auxiliary, key bar lever, 6th bank No. 5	30-32
H-3853	Keyboard, auxiliary, key bar frame, assembled	30-32	H-3890	Keyboard, auxiliary, key bar lever, 1st bank No. 6	30-32
H-3854	Keyboard, auxiliary, lever fulcrum rod bracket, r.h.	30-32	H-3891	Keyboard, auxiliary, key bar lever, 2nd bank No. 6	30-32
H-3855	Keyboard, auxiliary, lever fulcrum rod bracket, l.h.	30-32	H-3892	Keyboard, auxiliary, key bar lever, 3rd bank No. 6	30-32
H-3856	Keyboard, auxiliary, key bar operating lever plate	30-32	H-3893	Keyboard, auxiliary, key bar lever, 4th bank No. 6	30-32
H-3857	Keyboard, auxiliary, bar lever fulcrum rod support	30-32	H-3894	Keyboard, auxiliary, key bar lever fulcrum rod	30-32
H-3859	Keyboard, auxiliary, key lever guide, lower	30-32	H-3895	Keyboard, auxiliary, key bar lever fulcrum rod locking strip	30-32
H-3860	Keyboard, auxiliary, key bar lever, 1st bank No. 1	30-32	H-3896	Keyboard, auxiliary, cam yoke trigger operating rod	30-32
H-3861	Keyboard, auxiliary, key bar lever, 2nd bank No. 1	30-32	H-3897	Keyboard, auxiliary, key bar lever cover	30-32
H-3862	Keyboard, auxiliary, key bar lever, 3rd bank No. 1	30-32	H-3898	Keyboard, auxiliary, key bar guide, upper	30-32
H-3863	Keyboard, auxiliary, key bar lever, 4th bank No. 1	30-32	H-3899	Keyboard, auxiliary, key bar guide, upper, strip	30-32
H-3864	Keyboard, auxiliary, key bar lever, 5th bank No. 1	30-32	H-3900	Keyboard, auxiliary, key bar lever frame cover plate	30-32
H-3865	Keyboard, auxiliary, key bar lever, 6th bank No. 1	30-32	H-3901	Keyboard, auxiliary, key bar lever frame, assembled	30-32
H-3866	Keyboard, auxiliary, key bar lever, 1st bank No. 2	30-32	H-5622	Keyboard, auxiliary, key guide, upper, front	30-32
			H-5623	Keyboard, auxiliary, key bar frame bracket, r.h.	30-32
			H-5624	Keyboard, auxiliary, key bar frame bracket, l.h.	30-32
			J- 175	Keyboard, auxiliary, key bar guide strip, lower, front, center, dowel 1/8" x 3/8"	30-32
			J- 175	Keyboard, auxiliary, key bar guide strip, upper, front, small, dowel 1/8" x 3/8"	30-32
			J- 175	Keyboard, auxiliary, keyboard lever frame plate	30-32
			J- 415	Keyboard, auxiliary, key bar operating lever plate fulcrum rod support rivet	30-32
			<u>Parts Not Illustrated</u>		
			H-3858	Keyboard, auxiliary, key bar lever plate, assembled	30-32

Please Give Model and Serial Number When Ordering



*See Table on Opposite Page for Part Numbers

Assembling Mechanism

Models 30-32

Keyboard, Auxiliary 25

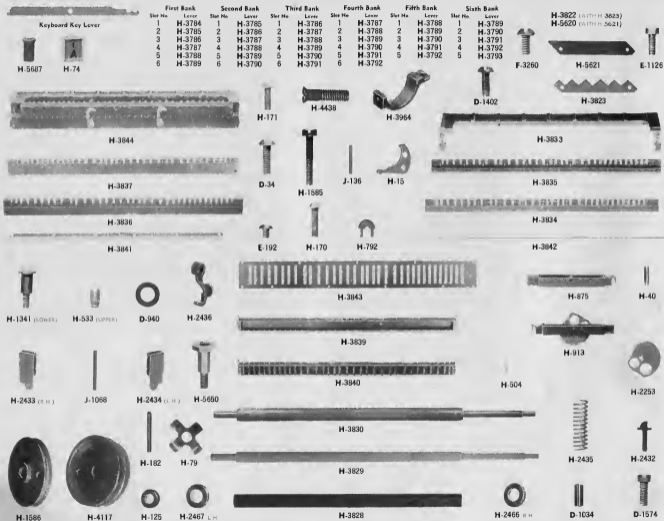
A- 112	Keyboard, auxiliary, keybar guide strip, lower, front, screw 8-32 x 3/8"	30-32	H-3848	Keyboard, auxiliary, keybar guide, lower, front	30-32
B- 217	Keyboard, auxiliary, keybar guide strip, upper, front, screw 8-32 x 1/4"	30-32	H-3850	Keyboard, auxiliary, keybar guide strip, upper, front	30-32
D- 839	Keyboard, auxiliary, keybar guide, upper, front, dowel 1/8" x 15/32"	30-32	H-3851	Keyboard, auxiliary, keybar guide strip, lower, front	30-32
D-1574	Keyboard, auxiliary, keybar guide, lower, front, screw 10-32 x 1/2"	30-32	H-5622	Keyboard, auxiliary, keybar guide, upper, front	30-32
F- 97	Keyboard, auxiliary, keybar guide, upper, front, screw 8-32 x 5/8"	30-32	H-6143	Keyboard, auxiliary, keybar frame bracket, l.h.	30-32
F-3260	Keyboard, auxiliary, keybar guide strip, upper, front, large, screw 6-32 x 3/16"	30-32	H-6144	Keyboard, auxiliary, keybar frame bracket, r.h.	30-32
G- 354	Keyboard, auxiliary, keybar guide strip, lower, front, end screw 8-48 x 5/16"	30-32	H-6182	Keyboard, auxiliary, cam yoke trigger operating bar and key bar (No. 34) assembled	30-32
H- 139	Keyboard, auxiliary, cam yoke trigger operating bar guide screw	30-32	H-6184	Keyboard, auxiliary, keybar frame, assembled	30-32
H-1932	Keyboard, auxiliary, keybar guide, lower, front, dowel 1/8" x 5/8"	30-32	H-6185	Keyboard, auxiliary, cam yoke trigger operating bar guide	30-32
			J- 175	Keyboard, auxiliary, keybar guide strip, lower, front, central, dowel 1/8" x 3/8"	30-32
			J- 175	Keyboard, auxiliary, keybar guide strip, upper, front, small, dowel 1/8" x 3/8"	30-32
			<u>Parts Not Illustrated</u>		
			H-6183	Keyboard, auxiliary, cover, back	30-32

Table Showing Part Number of Keyboard, Auxiliary, Cam Yoke Trigger Operating Bar and Key Bar, Assembled

Pos.	Part No.	Pos.	Part No.	Pos.	Part No.	Pos.	Part No.	Pos.	Part No.	Pos.	Part No.	Pos.	Part No.
1	H-6145	6	H-6150	11	H-6155	16	H-6160	21	H-6165	26	H-6170	31	H-6175
2	H-6146	7	H-6151	12	H-6156	17	H-6161	22	H-6166	27	H-6171	32	H-6176
3	H-6147	8	H-6152	13	H-6157	18	H-6162	23	H-6167	28	H-6172	33	H-6177
4	H-6148	9	H-6153	14	H-6158	19	H-6163	24	H-6168	29	H-6173	34	H-6182
5	H-6149	10	H-6154	15	H-6159	20	H-6164	25	H-6169	30	H-6174		

These Part Numbers Used on Machines from Serial No. 64328.

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 30-32

Keyboard, Auxiliary 27

D-34	Keyboard, auxiliary, key bar guide, lower, screw 8-32 x 1/2"	30-32	H-3787	Keyboard, auxiliary, key lever, 1st bank No. 4, 2nd bank No. 3, 3rd bank No. 2, 4th bank No. 1	30-32
D-34	Keyboard, auxiliary, cam yoke hinge bar screw 8-32 x 1/2"	30-32	H-3788	Keyboard, auxiliary, key lever, 1st bank No. 5, 2nd bank No. 4, 3rd bank No. 3, 4th bank No. 2, 5th bank No. 1	30-32
D-940	Keyboard cam yoke hinge bar screw	30-32	H-3789	Keyboard, auxiliary, key lever, 1st bank No. 6, 2nd bank No. 5, 3rd bank No. 4, 4th bank No. 3, 5th bank No. 2, 6th bank No. 1	30-32
D-1034	Keyboard, auxiliary, key bar frame dowel 5/32" x 3/8"	30-32	H-3790	Keyboard, auxiliary, key lever, 2nd bank No. 8, 3rd bank No. 5, 4th bank No. 4, 5th bank No. 3, 6th bank No. 2	30-32
D-1402	Keyboard, auxiliary, cam yoke trigger hinge and hinge bar bracket screw, short 8-32 x 7/16"	30-32	H-3791	Keyboard, auxiliary, key lever, 3rd bank No. 6, 4th bank No. 5, 5th bank No. 4, 6th bank No. 3	30-32
D-1574	Keyboard, auxiliary, key bar frame screw 8-32 x 1/2"	30-32	H-3792	Keyboard, auxiliary, key lever, 4th bank No. 6, 5th bank No. 5, 6th bank No. 4	30-32
E-192	Keyboard, auxiliary, cam stop strip screw 4-48 x 1/8"	30-32	H-3793	Keyboard, auxiliary, key lever, 6th bank No. 5	30-32
E-1126	Keyboard, auxiliary, key lever frame screw 8-32 x 7/16"	30-32	H-3822	Keyboard, auxiliary, key lever fulcrum rod	30-32
F-3260	Keyboard, auxiliary, key lever fulcrum rod keeper screw 6-32 x 3/16"	30-32	H-3823	Keyboard, auxiliary, key lever fulcrum rod keeper	30-32
H-15	Keyboard, auxiliary, cam yoke trigger	30-32	H-3828	Keyboard, auxiliary, cam rubber roll	30-32
H-40	Keyboard, auxiliary, cam yoke journal pin	30-32	H-3829	Keyboard, auxiliary, cam rubber roll shaft	30-32
H-74	Keyboard, auxiliary, key button	30-32	H-3830	Keyboard, auxiliary, cam rubber roll shaft, assembled	30-32
H-79	Keyboard, auxiliary, cam rubber roll shaft pulley friction spring	30-32	H-3833	Keyboard, auxiliary, cam yoke frame	30-32
H-125	Keyboard, auxiliary, cam rubber roll shaft pulley friction collar	30-32	H-3834	Keyboard, auxiliary, cam yoke trigger hinge bar	30-32
H-170	Keyboard, auxiliary, cam yoke guide plate, front, rivet	30-32	H-3835	Keyboard, auxiliary, cam yoke trigger hinge bar, assembled	30-32
H-171	Keyboard, auxiliary, cam yoke frame rivet	30-32	H-3836	Keyboard, auxiliary, cam yoke hinge bar	30-32
H-182	Keyboard, auxiliary, cam rubber roll shaft pulley friction collar pin, .105" x 13/16"	30-32	H-3837	Keyboard, auxiliary, cam yoke hinge bar, assembled	30-32
H-504	Keyboard, auxiliary, cam pin	30-32	H-3839	Keyboard, auxiliary, cam yoke spring bar, assembled	30-32
H-533	Keyboard cam yoke spring bar latch screw, upper	30-32	H-3840	Keyboard, auxiliary, cam yoke spring bar spring and plunger, assembled	30-32
H-792	Keyboard, auxiliary, cam yoke hinge rod lug	30-32	H-3841	Keyboard, auxiliary, cam stop strip	30-32
H-792	Keyboard, auxiliary, cam yoke trigger hinge rod lug	30-32	H-3842	Keyboard, auxiliary, cam yoke hinge rod	30-32
H-875	Keyboard, auxiliary, cam yoke	30-32	H-3842	Keyboard, auxiliary, cam yoke trigger hinge rod	30-32
H-913	Keyboard, auxiliary, cam yoke, assembled	30-32	H-3843	Keyboard, auxiliary, cam yoke guide plate	30-32
H-1341	Keyboard, auxiliary, cam yoke spring bar latch screw, lower, r.h.	30-32	H-3844	Keyboard, auxiliary, cam yoke frame, assembled	30-32
H-1585	Keyboard, auxiliary, cam yoke frame screw 8-32 x 1"	30-32	H-3964	Keyboard, auxiliary, cam yoke trigger hinge and hinge bar bracket	30-32
H-1586	Keyboard, auxiliary, cam rubber roll shaft pulley	30-32	H-4117	Keyboard, auxiliary, cam rubber roll shaft pulley	30-32
H-2253	Keyboard, auxiliary, cam, assembled	30-32	H-4438	Keyboard, auxiliary, cam yoke trigger hinge and hinge bar bracket screw, long 8-32 x 5/8"	30-32
H-2432	Keyboard, auxiliary, cam yoke spring plunger	30-32	H-5620	Keyboard, auxiliary, key lever fulcrum rod	30-32
H-2433	Keyboard, auxiliary, cam yoke spring bar hinge, r.h.	30-32	H-5621	Keyboard, auxiliary, key lever fulcrum rod keeper	30-32
H-2434	Keyboard, auxiliary, cam yoke spring bar hinge, l.h.	30-32	H-5650	Keyboard, auxiliary, cam yoke spring bar latch screw, l.h.	30-32
H-2435	Keyboard, auxiliary, cam yoke spring	30-32	H-5687	Keyboard, auxiliary, cam yoke retaining bar latch, screw, lower, l.h., extension	30-32
H-2436	Keyboard cam yoke spring bar latch	30-32	J-136	Keyboard, auxiliary, cam yoke hinge bar dowel 1/16" x 1/2"	30-32
H-2466	Keyboard, auxiliary, cam rubber roll shaft oil collar, r.h.	30-32	J-1068	Keyboard cam yoke spring bar hinge rivet	30-32
H-2467	Keyboard, auxiliary, cam rubber roll shaft oil collar, l.h.	30-32			
H-3784	Keyboard, auxiliary, key lever, 1st bank No. 1	30-32			
H-3785	Keyboard, auxiliary, key lever, 1st bank No. 2, 2nd bank No. 1	30-32			
H-3786	Keyboard, auxiliary, key lever, 1st bank No. 3, 2nd bank No. 2, 3rd bank No. 1	30-32			

Please Give Model and Serial Number When Ordering



H-602

H-1070 (FRONT) (L.H.)
H-4776 (FRONT) (L.H.)

I-883



I-582



H-5309



H-3845



H-144



H-5312



D-330



H-3915



H-3904



H-3902



I-144



D-802



J-175



H-5311



J-1451

H-3910 (UPPER) A = .875
H-5679 (UPPER) A = 1.000

H-3903



H-1482



C-42



E-69

H-3831 (L.H.)
H-3832 (L.H.)H-3911 A = .875
H-5676 A = 1.001

C-476



C-1984



E-75



F-215



H-3907



F-64



E-9



H-5627



I-1072



E-2779



D-107

H-3911 (LOWER) A = .875
H-5678 (LOWER) A = 1.000H-5310 A = .875
H-5680 A = 1.000

H-5469 (L.H.)



G-3695



E-45



G-107



H-5626 (L.H.)

Assembling Mechanism

Models 30-32

Keyboard, Auxiliary 29

C- 42	Keyboard, auxiliary, post, screw 3/8"-16 x 7/8"	30-32	H-3832	Keyboard, auxiliary, post, l.h.	30-32
C- 476	Keyboard, auxiliary, driving belt hook	30-32	H-3845	Keyboard, auxiliary, cam rubber roll shaft bushing	30-32
C-1984	Keyboard, auxiliary, driving belt, assembled	30-32	H-3902	Keyboard, auxiliary, locking pin	30-32
D- 107	Keyboard, auxiliary, supporting bracket, l.h., screw, short, washer	30-32	H-3903	Keyboard, auxiliary, locking pin spring	30-32
D- 330	Keyboard, auxiliary, cam yoke frame, dowel 1/8" x 15/16"	30-32	H-3904	Keyboard, auxiliary, locking pin knob	30-32
D- 802	Keyboard, auxiliary, key lever locking plate screw nut 8-32 x 1/8"	30-32	H-3907	Keyboard, auxiliary, supporting bracket, l.h., lock	30-32
E- 9	Keyboard, auxiliary, supporting bracket, l.h., block, screw 1/4"-24 x 7/8"	30-32	H-3910	Keyboard, auxiliary, support shaft collar, upper	30-32
E- 45	Keyboard, auxiliary, supporting bracket, l.h., screw	30-32	H-3911	Keyboard, auxiliary, support shaft collar, lower	30-32
E- 69	Keyboard, auxiliary, post dowel 1/4" x 15/16"	30-32	H-3915	Keyboard, auxiliary, support, r.h., base	30-32
E- 75	Keyboard, auxiliary, supporting shaft collar, lower, pin 1/4" x 1 5/8"	30-32	H-4776	Keyboard, cam rubber roll shaft bracket, front, l.h.	30-32
E-2779	Keyboard, auxiliary, supporting bracket, l.h., screw, short 3/8"-16 x 1 1/2"	30-32	H-5309	Keyboard, auxiliary, cam cover	30-32
F- 64	Keyboard, auxiliary, supporting bracket, l.h., block, screw 1/4"-24 x 23/32"	30-32	H-5310	Keyboard, auxiliary, support shaft	30-32
F- 215	Keyboard, auxiliary, support shaft pin 1/4" x 1 3/4"	30-32	H-5311	Keyboard, auxiliary, support, r.h., rod adjusting coupling	30-32
G- 107	Keyboard, auxiliary, supporting bracket, l.h., screw, long, washer	30-32	H-5312	Keyboard, auxiliary, cam cover stud	30-32
G-3655	Keyboard, auxiliary, supporting bracket, l.h., dowel 5/16" x 1/2"	30-32	H-5469	Keyboard, auxiliary, supporting bracket, l.h.	30-32
H- 144	Keyboard, auxiliary, cam rubber roll shaft bushing screw 8-32 x 5/16"	30-32	H-5626	Keyboard, auxiliary, supporting bracket, l.h.	30-32
H- 602	Keyboard, auxiliary, cam rubber roll shaft bracket screw 3/8"-18 x 2 1/4"	30-32	H-5627	Keyboard, auxiliary, supporting bracket, l.h., lock block	30-32
H-1070	Keyboard, cam rubber roll shaft bracket, front, r.h.	30-32	H-5676	Keyboard, auxiliary, frame	30-32
H-1482	Keyboard, auxiliary, post key	30-32	H-5678	Keyboard, auxiliary, support shaft collar, lower	30-32
H-3811	Keyboard, auxiliary, frame	30-32	H-5679	Keyboard, auxiliary, support shaft collar, upper	30-32
H-3831	Keyboard, auxiliary, post, r.h.	30-32	H-5680	Keyboard, auxiliary, support shaft	30-32
			I- 144	Keyboard, auxiliary, locking pin knob pin 3/32" x 3/8"	30-32
			I- 582	Keyboard, auxiliary, cam cover stud knob	30-32
			I- 883	Keyboard, auxiliary, cam rubber roll shaft bracket, dowel 3/16" x 1 1/8"	30-32
			I-1072	Keyboard, auxiliary, supporting bracket, l.h., block, dowel 1/4" x 3/4"	30-32
			J- 175	Keyboard, auxiliary, key lever frame dowel 1/8" x 3/8"	30-32
			J-1451	Keyboard, auxiliary, support shaft collar, upper, set screw 5/16"-18 x 1/2"	30-32

Please Give Model and Serial Number When Ordering



H-3817



H-5639



H-3819



H-3818



H-3816



D-159



G-2815



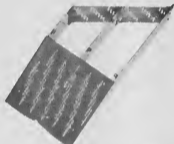
F-267



G-357



H-3821



H-3820



H-1768



H-1767



H-3827



H-2367



J-141



H-3825



H-4446



H-3815



H-24



H-2309



F-112



H-5625



H-3824



D-159



H-5636 (R.H.)

H-5313 (R.H.)
H-5314 (L.H.)

H-5637 (L.H.)



H-5638



H-3812 (R.H.)

H-5640 (R.H.)
H-5641 (L.H.)

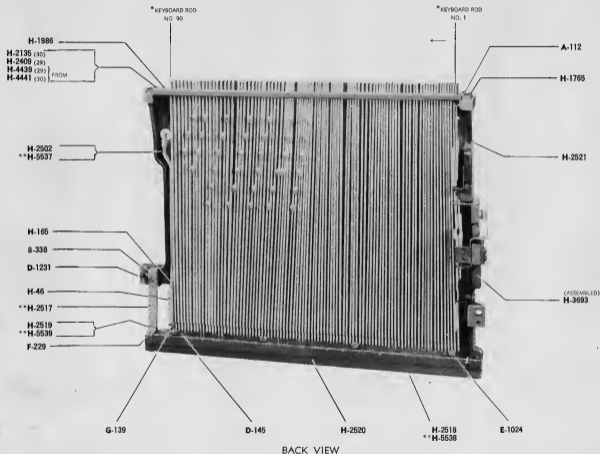
H-3813 (L.H.)



H-3814

D- 159 Keyboard, auxiliary, cover plate screw 8-32 x 3/16"	30-32	H-3820 Keyboard, auxiliary, body, assembled	30-32
D- 159 Keyboard, auxiliary, side plate extension screw 8-32 x 3/16"	30-32	H-3821 Keyboard, auxiliary, cover plate	30-32
D- 159 Keyboard, auxiliary, side plate screw 8-32 x 3/16"	30-32	H-3824 Keyboard, auxiliary, key lever locking plate	30-32
F- 112 Keyboard, auxiliary, body screw 14-24 x 3/8"	30-32	H-3825 Keyboard, auxiliary, key lever locking plate latch	30-32
F- 267 Keyboard, auxiliary, back, plate screw 6-48 x 3/16"	30-32	H-3827 Keyboard, auxiliary, key lever locking plate guide screw	30-32
G- 357 Keyboard, auxiliary, back, plate dowel	30-32	H-4446 Keyboard, auxiliary, key lever locking plate latch screw	30-32
G-2615 Keyboard, auxiliary, back, plate rivet	30-32	H-5313 Keyboard, auxiliary, side plate, r.h., extension	30-32
H- 24 Keyboard, auxiliary, cover bracket	30-32	H-5314 Keyboard, auxiliary, side plate, l.h., extension	30-32
H-1767 Keyboard, auxiliary, key lever locking plate spring	30-32	H-5625 Keyboard, auxiliary, key lever locking plate	30-32
H-1768 Keyboard, auxiliary, key lever locking plate spring screw	30-32	H-5636 Keyboard, auxiliary, side plate, r.h.	30-32
H-2309 Keyboard, auxiliary, cover bracket rivet	30-32	H-5637 Keyboard, auxiliary, side plate, l.h.	30-32
H-2367 Keyboard, auxiliary, key lever locking plate latch	30-32	H-5638 Keyboard, auxiliary, partition plate	30-32
H-3812 Keyboard, auxiliary, side plate, r.h.	30-32	H-5639 Keyboard, auxiliary, back, plate	30-32
H-3813 Keyboard, auxiliary, side plate, l.h.	30-32	H-5640 Keyboard, auxiliary, side, plate, r.h., extension	30-32
H-3814 Keyboard, auxiliary, partition plate	30-32	H-5641 Keyboard, auxiliary, side, plate, l.h., extension	30-32
H-3815 Keyboard, auxiliary, top, plate	30-32	J- 141 Keyboard, auxiliary, key lever locking plate latch rivet	30-32
H-3816 Keyboard, auxiliary, back, plate supporting strip, r.h.	30-32		
H-3817 Keyboard, auxiliary, back, plate	30-32		
H-3818 Keyboard, auxiliary, back, plate supporting strip, center	30-32		
H-3819 Keyboard, auxiliary, back, plate supporting strip, l.h.	30-32		
		Parts Not Illustrated	
		H-3826 Keyboard, auxiliary, key lever locking plate, assembled	30-32

Please Give Model and Serial Number When Ordering



**From Serial No. 57100 to 61941.

H-4076 Model 30

H-4447 Model 30 FROM SERIAL NO. 52742

H-4077 Model 29

H-4440 Model 29 FROM SERIAL NO. 52742

H-5540 Model 29-30 FROM SERIAL NO. 57100 TO 61941

*Keyboard Rods—See Table on Opposite Page.

Check Parts by Referring to Detail Pages.

Assembling Mechanism

Models 29-30 (90 Char.)

Keyboard Rods 33

Rod No.	Model 29		Model 30		Rod No.	Model 29		Model 30		Rod No.	Model 29		Model 30	
	1	2	3	4		1	2	3	4		1	2	3	4
0					33	H-2522	H-2522	H-3743	H-2522	66	H-2523	H-3745	H-2546	H-3745
1	*H-2522	H-2522	H-2522	H-2522	34	H-2522	H-2522	H-3743	H-2522	67	H-2523	H-3745	H-2551	H-3745
2	H-2522	H-2522	H-2522	H-2522	35	H-2522	H-2522	H-3743	H-2522	68	H-2523	H-3745	H-2528	H-3745
3	H-2522	H-2522	H-2522	H-2522	36	H-2522	H-2522	H-3743	H-2522	69	H-2523	H-3744	H-2532	H-3744
4	H-2522	H-2522	H-2522	H-2522	37	H-2522	H-2522	H-3743	H-2522	70	H-2522	H-3744	H-2533	H-3744
5	H-2522	H-2522	H-2522	H-2522	38	H-2522	H-2522	H-3743	H-2522	71	H-2522	H-3744	H-2538	H-3744
6	H-2522	H-2522	H-2522	H-2522	39	H-2522	H-2522	H-3743	H-2522	72	H-2523	H-3743	H-2547	H-3743
7	H-2522	H-2522	H-2522	H-2522	40	H-2522	H-2522	H-3743	H-2522	73	H-2522	H-3743	H-2566	H-3743
8	H-2522	H-2522	H-2522	H-2522	41	H-2522	H-2522	H-3743	H-2522	74	H-2522	H-3743	H-2362	H-3743
9	H-2522	H-2522	H-2522	H-2522	42	H-2522	H-2522	H-3743	H-2522	75	H-2522	H-3743	H-2569	H-3743
10	H-2522	H-2522	H-2522	H-2522	43	H-2522	H-2522	H-3743	H-2522	76	H-2522	H-2522	H-2534	H-2522
11	H-2522	H-2522	H-2522	H-2522	44	H-2522	H-2522	H-3744	H-2522	77	H-2522	H-2522	H-2559	H-2522
12	H-2522	H-2522	H-2522	H-2522	45	H-2522	H-2522	H-3744	H-2522	78	H-2522	H-2522	H-2373	H-2522
13	H-2522	H-2522	H-2522	H-2522	46	H-2522	H-3743	H-3744	H-3743	79	H-2522	H-2522	H-2567	H-2522
14	H-2522	H-2522	H-2522	H-2522	47	H-2523	H-3743	H-3745	H-3743	80	H-2522	H-2522	H-2563	H-2522
15	H-2522	H-2522	H-2522	H-2522	48	H-2523	H-3743	H-3745	H-3743	81	H-2522	H-2522	H-2570	H-2522
16	H-2522	H-2522	H-2522	H-2522	49	H-2523	H-3743	H-2525	H-3743	82	H-2522	H-2522	H-2565	H-2522
17	H-2522	H-2522	H-2522	H-2522	50	H-2523	H-3743	H-2530	H-3743	83	H-2522	H-2522	H-2564	H-2522
18	H-2522	H-2522	H-2522	H-2522	51	H-2523	H-3744	H-2534	H-3744	84	H-2522	H-2522	H-2560	H-2522
19	H-2522	H-2522	H-2522	H-2522	52	H-2523	H-3745	H-2539	H-3745	85	H-2522	H-2522	H-2571	H-2522
20	H-2522	H-2522	H-2522	H-2522	53	H-2523	H-3745	H-2544	H-3745	86	H-2522	H-2522	H-2566	H-2522
21	H-2522	H-2522	H-2522	H-2522	54	H-2523	H-3745	H-2549	H-3745	87	H-2522	H-2522	H-2522	H-2522
22	H-2522	H-2522	H-2522	H-2522	55	H-2523	H-3745	H-2526	H-3745	88	H-2522	H-2522	H-2522	H-2522
23	H-2522	H-2522	H-2522	H-2522	56	H-2523	H-3745	H-2531	H-3745	89	H-2522	H-2522	H-2522	H-2522
24	H-2522	H-2522	H-3743	H-2522	57	H-2523	H-3745	H-2535	H-3745	90	H-2522	H-2522	H-2522	H-2522
25	H-2522	H-2522	H-3743	H-2522	58	H-2523	H-3745	H-2540	H-3745					
26	H-2522	H-2522	H-3743	H-2522	59	H-2523	H-3745	H-2541	H-3745					
27	H-2522	H-2522	H-3743	H-2522	60	H-2523	H-3745	H-2545	H-3745					
28	H-2522	H-2522	H-3743	H-2522	61	H-2523	H-3745	H-2550	H-3745					
29	H-2522	H-2522	H-3743	H-2522	62	H-2523	H-3745	H-2527	H-3745					
30	H-2522	H-2522	H-3743	H-2522	63	H-2523	H-3745	H-2531	H-3745					
31	H-2522	H-2522	H-3743	H-2522	64	H-2523	H-3745	H-2536	H-3745					
32	H-2522	H-2522	H-3743	H-2522	65	H-2523	H-3745	H-2542	H-3745					

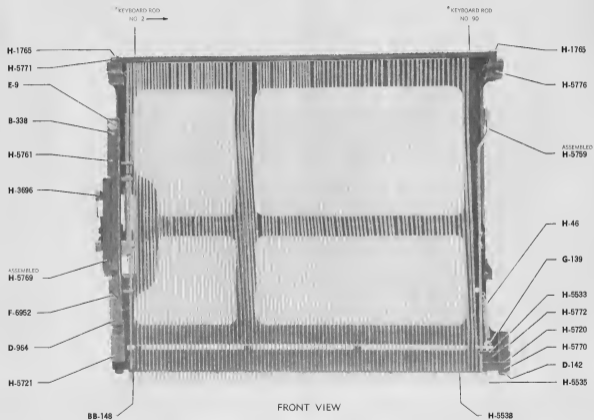
1. To Serial No. 54399.

2. From Serial No. 54400 to Serial No. 57099.

3. To Serial No. 57099.

4. From Serial No. 57100 to Serial No. 61987.

* When Multiple (cc) Attachment is used, H-2522 is replaced in upper slot No. 2 by H-4060, in lower slot No. 1 by H-3695, and H-4059 is used in upper slot No. 1.

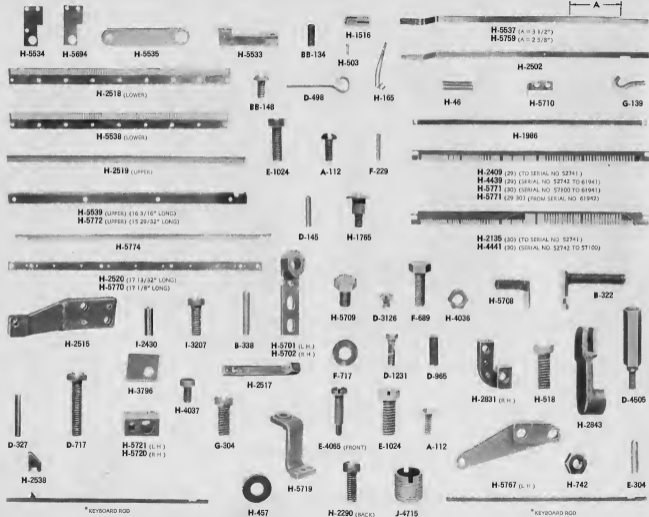


H-5779 Model 29-30 (FROM SERIAL NO. 61942)

These Rods Used with Swinging Key Rod Frame H-5779

Rod No.	Model 29-30 90 Character	Rod No.	Model 29-30 90 Character	Rod No.	Model 29-30 90 Character	Rod No.	Model 29-30 90 Character	Rod No.	Model 29-30 90 Character
0		19	H-5874	38	H-5884	57	H-5902	76	H-5917
1	*H-2522	20	H-5889	39	H-5887	58	H-5903	77	H-5918
2	H-2522	21	H-5872	40	H-5879	59	H-5904	78	H-5919
3	H-5861	22	H-5873	41	H-5885	60	H-5905	79	H-5920
4	H-5862	23	H-5875	42	H-5880	61	H-5906	80	H-5921
5	H-5863	24	H-5876	43	H-5888	62	H-5907	81	H-5882
6	H-5864	25	H-5877	44	H-5889	63	H-5908	82	H-5922
7	H-5865	26	H-5878	45	H-5890	64	H-5909	83	H-5923
8	H-5866	27	H-5879	46	H-5891	65	H-5907	84	H-5924
9	H-5867	28	H-5880	47	H-5892	66	H-5910	85	H-5925
10	H-5868	29	H-5880	48	H-5893	67	H-5910	86	H-5926
11	H-5869	30	H-5881	49	H-5894	68	H-5909	87	H-5927
12	H-5870	31	H-5882	50	H-5895	69	H-5897	88	H-5928
13	H-5871	32	H-5883	51	H-5896	70	H-5911	89	H-5929
14	H-5872	33	H-5884	52	H-5897	71	H-5912	90	H-5930
15	H-5873	34	H-5878	53	H-5898	72	H-5913		
16	H-5870	35	H-5880	54	H-5899	73	H-5914		
17	H-5873	36	H-5885	55	H-5900	74	H-5915		
18	H-5871	37	H-5886	56	H-5901	75	H-5916		

*When Multiple (ee) Attachment is used, H-2522 is replaced in upper slot No. 2 by H-4060, in lower slot No. 1 by H-3695, and H-4089 is used in upper slot No. 1.



Assembling Mechanism

Models 29-30 (90 Chor.)

Keyboard Rod, Long, Frame 37

A- 112	Keyboard rod guide, upper, strip screw 8-32 x 3/8"	29-30	H-2517	Keyboard rod, long, frame extension	29-30
A- 112	Keyboard rod, long, frame fulcrum pin, r.h., screw 8-32 x 3/8"	29-30	H-2518	Keyboard rod, long, guide, lower	29-30
B- 322	Keyboard rod, long, frame fulcrum pin, r.h., assembled	29-30	H-2519	Keyboard rod, long, banking bar, upper	29-30
B- 338	Keyboard rod, long, frame extension dowel 3/32" x 7/8"	29-30	H-2520	Keyboard rod, long, banking bar, upper, supporting strip	29-30
BB-134	Keyboard spaceband rod slide lever lock pin 1/8" x 3/8"	29-30	H-2538	Keyboard rod lug	30
BB-148	Keyboard rod, long, guide, lower, screw 3-32 x 5/16"	29-30	H-2831	Keyboard rod, long, frame bracket, r.h.	30
D- 145	Keyboard rod, long, banking bar, upper, dowel 1/8" x 5/8"	29-30	H-2843	Keyboard spaceband rod link lever	29-30
D- 327	Keyboard rod, long, frame bracket, l.h., upper dowel 1/8" x 5/8"	29-30	H-3796	Keyboard rod, long, frame spacer	29-30
D- 498	Spaceband lever key rod pin	29-30	H-4036	Keyboard rod, long, frame bracket, r.h., adjusting screw lock nut 8-32 x 1/4"	29-30
D- 717	Keyboard rod, long, frame bracket, l.h., upper, screw 1/4"-24 x 1 3/16"	29-30	H-4037	Keyboard rod, long, frame bracket, r.h., adjusting screw	29-30
D- 965	Keyboard rod, long, frame bracket, r.h., dowel 5/32" x 1/2"	29-30	H-4439	Keyboard rod guide, upper	29-30
D-1231	Keyboard rod, long, frame extension screw 10-32 x 5/8"	29-30	H-4441	Keyboard rod guide, upper	30
D-3126	Keyboard rod, long, frame fulcrum pin, l.h., screw 8-32 x .128"	29-30	H-5533	Keyboard spaceband rod slide lever	29-30
D-4505	Face plate frame cover stud	29-30	H-5534	Keyboard spaceband rod slide lever plate	29-30
E- 304	Keyboard rod, long, frame dowel 5/32" x 11/16"	29-30	H-5535	Keyboard spaceband rod slide lever link	29-30
E-1024	Keyboard rod, long, banking bar, upper, screw 1/4"-24 x 3/4"	29-30	H-5537	Spaceband lever key rod, assembled	29-30
E-1024	Keyboard rod, long, banking bar, upper, supporting strip screw 1/4"-24 x 3/4"	29-30	H-5538	Keyboard rod, long, guide, lower	29-30
E-1024	Keyboard rod, long, frame locking bracket, r.h., screw, back 1/4"-24 x 3/4"	29-30	H-5539	Keyboard rod, long, banking bar, upper	29-30
E-4065	Keyboard rod, long, frame locking bracket, l.h., screw, front	29-30	H-5694	Keyboard spaceband rod slide lever plate	29-30
F- 229	Keyboard rod, long, banking bar, upper, supporting strip dowel 3/32" x 8/16"	29-30	H-5701	Keyboard rod, long, frame fulcrum bracket, l.h.	29-30
F- 689	Keyboard rod, long, frame locking bracket, l.h., screw, back 1/4"-24 x 3/4"	29-30	H-5702	Keyboard rod, long, frame fulcrum bracket, r.h.	29-30
F- 689	Keyboard rod, long, frame fulcrum bracket, r.h., screw 1/4"-24 x 3/4"	29-30	H-5706	Keyboard rod, long, frame fulcrum bracket, l.h. pin, assembled	29-30
F- 717	Keyboard rod, long, frame fulcrum bracket, r.h. and l.h., screw washer	29-30	H-5709	Keyboard rod, long, frame fulcrum bracket, l.h., screw 1/4"-24 x 7/16"	29-30
G- 139	Spaceband lever key rod spring hook	29-30	H-5710	Spaceband lever key rod, short, guide	29-30
G- 304	Keyboard rod, long, frame locking bracket, r.h., screw, front 1/4"-24 x 1 1/2"	29-30	H-5719	Keyboard rod, long, frame locking bracket, r.h.	29-30
H- 46	Spaceband lever key rod spring	29-30	H-5720	Keyboard rod, long, frame extension, r.h.	29-30
H- 165	Spaceband lever key rod hook	29-30	H-5721	Keyboard rod, long, frame extension, l.h.	29-30
H- 457	Keyboard rod, long, frame locking bracket, r.h., screw, back, washer	29-30	H-5759	Spaceband lever key rod, assembled	29-30
H- 503	Spaceband lever key rod connection rivet	29-30	H-5767	Keyboard rod, long, frame locking bracket, l.h.	29-30
H- 518	Keyboard rod, long, frame bracket, r.h., screw 5/16"-18 x 3/4"	29-30	H-5770	Keyboard rod, long, banking bar, upper, supporting strip	29-30
H- 742	Keyboard rod, long, frame locking bracket, l.h., screw, front, nut 10-32 x 3/8"	29-30	H-5771	Keyboard rod guide, upper	29-30
H-1516	Spaceband lever key rod connection	29-30	H-5772	Keyboard rod, long, banking bar, upper	29-30
H-1765	Keyboard rod guide, upper, screw	29-30	H-5774	Keyboard rod, long, keeper plate	29-30
H-1986	Keyboard rod guide, upper, strip	29-30	I-2430	Keyboard rod, long, frame bracket, l.h., lower, dowel 3/16" x 9/16"	29-30
H-2135	Keyboard rod guide, upper	30	I-3207	Keyboard rod, long, frame bracket, l.h., lower, screw 1/4"-24 x 5/8"	29-30
H-2290	Keyboard rod, long, frame locking bracket, l.h., screw, back 1/4"-24 x 5/8"	29-30	I-3207	Keyboard rod, long, frame bracket, l.h., upper, screw 1/4"-24 x 5/8"	29-30
H-2409	Keyboard rod guide, upper	29	I-3207	Keyboard rod, long, frame screw, r.h., lower, screw 1/4"-24 x 3/8"	29-30
H-2502	Spaceband lever key rod, assembled	29-30	I-3207	Keyboard rod, long, frame bracket, r.h., screw 1/4"-24 x 5/8"	29-30
H-2515	Keyboard rod, long, frame bracket, l.h., lower	29-30	J-4715	Keyboard rod, long, frame locking bracket, l.h., screw, back, bushing	29-30

Parts Not Illustrated

H-2521	Keyboard rod, long, frame	29-30
H-5776	Keyboard rod, long, frame	29-30

Please Give Model and Serial Number When Ordering



H-3682



H-3578



H-3577



G-2790



H-567



H-3693



H-3927 (UPPER)



H-3691 (LOWER)



E-119



8-99



D-331



G-274



H-3688



H-5300



F-267



H-5298



H-3690



H-5769



D-972



D-3044



H-3696



H-5316



H-5788



*H-4065



H-3582



B-99



H-978



H-4092



H-165



H-3697



*H-3704



*H-4090



H-544



H-4059 (L.H.)



*H-4063 (L.H.)



H-4060 (R.H.)



*H-4064 (L.H.)

*These parts are for (72-90) machines only

Assembling Mechanism

Models 29-30-31-32

Multiple Key Rod (ee) Attachment 39

B- 99	Multiple key rod, upper, guide plate, lower, screw 8-32 x 3/8"	29-30-31-32	H-3688	Multiple key rod bracket	29-30-31-32
B- 99	Multiple key rod, upper, extension guide plate screw 8-32 x 3/8"	29-30-31-32	H-3690	Multiple key rod reversing pawl guide	29-30-31-32
D- 331	Multiple key rod bracket dowel 1/8" x 9/16"	29-30-31-32	H-3691	Multiple key rod, upper, guide plate, lower	29-30-31-32
D- 972	Multiple key rod, upper, guide plate, lower, dowel	29-30-31-32	H-3693	Multiple key rod bracket, assembled	29-30-31-32
D-3044	Multiple key rod, upper, guide plate, lower, screw	29-30-31-32	H-3696	Multiple key rod bracket screw	29-30-31-32
E- 119	Multiple key rod, upper, guide plate, upper, screw	29-30-31-32	H-3697	Multiple key rod, upper, extension guide plate	29-30-31-32
F- 267	Multiple key rod reversing pawl guide screw 6-48 x 3/16"	29-30-31-32	H-3704	Multiple key rod, upper, extension guide plate (72-90)	29-30
G- 274	Multiple key rod, upper, guide plate, lower, screw	29-30-31-32	H-3927	Multiple key rod, upper, guide plate, upper	29-30-31-32
G-2790	Multiple key rod, upper, operating rod return spring eye	29-30-31-32	H-4059	Multiple key rod, upper, extension, l.h.	29-30
H- 165	Multiple key rod, upper, extension spring hook	29-30	H-4060	Multiple key rod, upper, extension, r.h.	29-30
H- 544	Multiple key rod, upper, extension spring	29-30	H-4063	Multiple key rod, upper, extension, l.h. (72-90)	29-30
H- 567	Multiple key rod, upper, operating rod return spring	29-30-31-32	H-4064	Multiple key rod, upper, extension, r.h. (72-90)	29-30
H- 978	Multiple key rod, upper, extension guide plate screw 8-32 x 7/32" (72-90)	29-30	H-4065	Multiple key rod, upper, extension guide plate (72-90)	29-30
H-3577	Multiple key rod, upper, operating rod block	29-30-31-32	H-4090	Multiple key rod, upper, extension guide plate (72-90)	29-30
H-3578	Multiple key rod, upper, operating rod block rivet	29-30-31-32	H-4092	Multiple key rod, upper, extension	31-32
H-3582	Multiple key rod, upper, extension spring	31-32	H-5298	Multiple key rod, upper, operating rod block	29-30
H-3682	Multiple key rod, upper, operating rod, assembled	29-30-31-32	H-5300	Multiple key rod, upper, operating rod, assembled	29-30-31-32
			H-5316	Multiple key rod bracket dowel	29-30-31-32
			H-5768	Multiple key rod bracket	29-30
			H-5769	Multiple key rod bracket, assembled	29-30

Please Give Model and Serial Number When Ordering



H-3198



H-2505



H-2507



H-3667 (L.H.)



H-3684 (R.H.)

H-3683
(UPPER)

H-5303

H-5296 (L.H.)
H-5304 (R.H.)

H-5297 (L.H.)



H-5295 (R.H.)

H-5294
(UPPER)

H-3686 (L.H.)



H-2506 (R.H.)



H-3694



*H-4091



*H-3702



B-99



H-5319



H-3689



H-2595



H-5301



E-192



D-120



H-5302

B-338
(UPPER)

D-1386



H-2569



D-972



B8-148



F-2445

H-3695 (LOWER)
*H-3703 (LOWER)

*H-5728

F-6052
(LOWER)

H-5761



I-2800



E-103



H-2598



H-3773



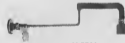
D-4263



G-1053



H-5780



H-5764



H-3770



H-2595



H-3771



D-168



H-3769



H-3768



B-96



H-5714



H-1124



H-5715

* These parts are only for (72-90) machines

Assembling Mechanism

Models 29-30-31-32

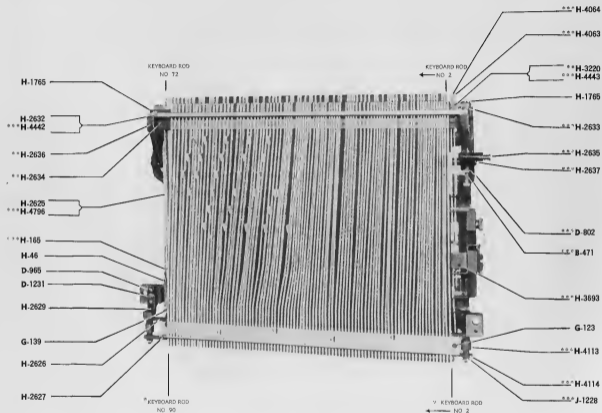
Multiple Key Rod (ee) Attachment 41

B- 96	Multiple key rod shifter handle bracket screw, upper 4-48 x 1/4"	29-30-31-32	H-3694	Multiple key rod, lower, guide plate	29-30-31-32
B- 96	Multiple key rod shifter lever link connecting rod bracket screw	29-30	H-3695	Multiple key rod, lower	29-30-31-32
B- 99	Multiple key rod, lower, guide plate screw 8-32 x 3/8"	29-30-31-32	H-3702	Multiple key rod, lower, guide plate (72-90)	29-30
B- 338	Multiple key rod bracket support dowel, upper	29-30	H-3703	Multiple key rod, lower (72-90)	29-30
BB-148	Multiple key rod shifter lever stop screw 8-32 x 5/16"	29-30-31-32	H-3768	Multiple key rod shifter handle bracket stud	29-30-31-32
D- 120	Multiple key rod, upper, reversing pawl, l.h., guide screw	29-30-31-32	H-3769	Multiple key rod shifter handle bracket and stud, assembled	29-30-31-32
D- 168	Multiple key rod shifter handle bracket screw, lower 4-48 x 1/4"	29-30-31-32	H-3770	Multiple key rod shifter handle	29-30-31-32
D- 972	Multiple key rod shifter lever stop dowel 3/32" x 5/16"	29-30-31-32	H-3771	Multiple key rod shifter handle friction washer retaining washer	29-30-31-32
D-1386	Multiple key rod shifter lever screw	29-30-31-32	H-3773	Multiple key rod shifter lever link	29-30-31-32
D-4263	Multiple key rod shifter lever link screw	29-30-31-32	H-4091	Multiple key rod, lower, guide plate (72-90)	29-30
E- 103	Multiple key rod shifter lever clamp screw	29-30-31-32	H-5294	Multiple key rod, upper	29-30
E- 192	Multiple key rod, upper, reversing pawl, l.h., guide screw	29-30	H-5295	Multiple key rod, upper, r.h., assembled	29-30-31-32
F-2445	Multiple key rod shifter lever stop screw lock washer	29-30-31-32	H-5296	Multiple key rod, upper, l.h., reversing pawl, assembled	29-30
F-6952	Multiple key rod bracket support screw, lower	29-30	H-5297	Multiple key rod, upper, l.h., assembled	29-30-31-32
G-1053	Multiple key rod shifter lever link screw nut 4-48 x 3/16"	29-30-31-32	H-5301	Multiple key rod shifter lever	29-30-31-32
H-1124	Multiple key rod shifter lever link knob set screw	29-30	H-5302	Multiple key rod, upper, reversing pawl, l.h., guide	29-30
H-2505	Multiple key rod, upper, r.h., reversing pawl stop pin	29-30-31-32	H-5303	Multiple key rod, upper, reversing pawl spring	29-30-31-32
H-2506	Multiple key rod, upper, r.h., reversing pawl, assembled	29-30-31-32	H-5304	Multiple key rod, upper, r.h., reversing pawl, assembled	29-30
H-2507	Multiple key rod, upper, reversing pawl pin	29-30-31-32	H-5319	Multiple key rod, upper, reversing pawl, l.h., guide	29-30-31-32
H-2589	Multiple key rod shifter lever stop	29-30-31-32	H-5714	Multiple key rod shifter lever link knob	29-30
H-2595	Multiple key rod shifter lever screw washer	29-30-31-32	H-5715	Multiple key rod shifter lever link connecting rod bracket	29-30
H-2595	Multiple key rod shifter handle friction washer	29-30-31-32	H-5728	Multiple key rod, lower (72-90)	29-30
H-2598	Multiple key rod shifter lever clamp	29-30-31-32	H-5761	Multiple key rod bracket support	29-30
H-3198	Multiple key rod, upper, reversing pawl counterweight	29-30-31-32	H-5764	Multiple key rod shifter lever link, assembled	29-30
H-3683	Multiple key rod, upper	29-30-31-32	H-5780	Multiple key rod shifter lever link, assembled	29-30
H-3684	Multiple key rod, upper, r.h., assembled	29-30-31-32	I-2800	Multiple key rod shifter lever clamp screw nut 8-48 x 1/4"	29-30-31-32
H-3686	Multiple key rod, upper, l.h., reversing pawl, assembled	29-30-31-32			
H-3687	Multiple key rod, upper, l.h., assembled	29-30-31-32			
H-3689	Multiple key rod shifter lever	29-30-31-32			

Parts Not Illustrated

H-3772	Multiple key rod shifter handle and bracket, assembled	29-30-31-32
H-3774	Multiple key rod shifter handle, assembled	29-30-31-32

Please Give Model and Serial Number When Ordering



BACK VIEW

** To Serial No. 57099.

*** From Serial No. 57100 to 61941.

* Keyboard Rods, See Table on Opposite Page.

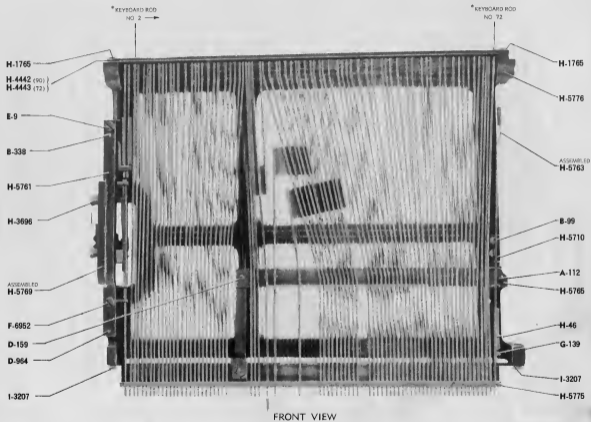
H-4053 Model 29 (72-90) TO SERIAL NO. 57099

H-4054 Model 30 (72-90) TO SERIAL NO. 52342

H-4444 Model 29-30 (72-90) FROM SERIAL NO. 57100 TO 61941

H-4445 Model 30 (72-90) FROM SERIAL NO. 52748 TO 57100

Check Parts by Referring to Detail Pages.



H-5776 Model 29-30 (72-90) (FROM SERIAL NO. 61942)

*Keyboard Rods, See Table on Opposite Page.

These Rods Used with Swinging Key Rod Frame H-5778

Models 29-30						Models 29-30					
Rod No.	90 Character		72 Character		Rod No.	90 Character		72 Character			
	Part No.	Upper Slot No. Lower Slot No.	Part No.	Upper Slot No. Lower Slot No.		Part No.	Upper Slot No. Lower Slot No.	Part No.	Upper Slot No. Lower Slot No.		
0		1	*	1	46	H-5821	47	46	H-5748	47	64
1	H-2522	2	H-2522	2	47	H-5822	48	47	H-5748	48	65
2	H-2522	3	H-2522	3	48	H-5823	49	48	H-5749	49	66
3	H-5793	4	H-2522	4	49	H-5824	50	49	H-5750	50	67
4	H-5792	5	H-3967	5	50	H-3967	51	50	H-5751	51	68
5	H-5793	6	H-3967	6	51	H-5826	52	51	H-5752	52	69
6	H-5794	7	H-3967	7	52	H-5827	53	52	H-5753	53	70
7	H-5795	8	H-3967	8	53	H-5828	54	53	H-5753	54	71
8	H-5796	9	H-3967	9	54	H-5829	55	54	H-5754	55	72
9	H-5797	10	H-3967	10	55	H-5830	56	55	H-5755	56	73
10	H-5798	11	H-3967	11	56	H-5831	57	56	H-5756	57	74
11	H-5799	12	H-3967	12	57	H-5832	58	57	H-5757	58	75
12	H-5800	13	H-3967	13	58	H-5833	59	58	H-3967	59	76
13	H-5813	14	H-3967	14	59	H-5834	60	59	H-3968	60	77
14	H-5814	15	H-3967	15	60	H-5835	61	60	H-3969	61	78
15	H-5815	16	H-3967	16	61	H-5836	62	61	H-3969	62	79
16	H-5800	17	H-3967	17	62	H-5837	63	62	H-3969	63	80
17	H-5815	18	H-3967	18	63	H-5838	64	63	H-3744	64	81
18	H-5813	19	H-3967	19	64	H-5839	65	64	H-3744	65	82
19	H-5801	20	H-3967	20	65	H-5837	66	65	H-3745	66	83
20	H-5796	21	H-3967	21	66	H-5848	67	66	H-3971	67	84
21	H-5814	22	H-3967	22	67	H-5848	68	67	H-3971	68	85
22	H-5815	23	H-3743	23	68	H-5839	69	68	H-3971	69	86
23	H-5802	24	H-3967	24	69	H-5847	70	69	H-3971	70	87
24	H-5803	25	H-3968	25	70	H-5840	71	70	H-3971	71	88
25	H-5804	26	H-3968	26	71	H-5841	72	71	H-3970	72	89
26	H-5805	27	H-3967	27	72	H-5842	73	72	H-3967	73	90
27	H-5806	28	H-5731	28	73	H-5843	74	73			
28	H-5807	29	H-5731	29	74	H-5844	75	74			
29	H-5807	30	H-5732	30	75	H-5845	76	75			
30	H-5808	31	H-5724	31	76	H-5846	77	76			
31	H-5809	32	H-5735	32	77	H-5847	78	77			
32	H-5810	33	H-5736	33	78	H-5849	79	78			
33	H-5811	34	H-5737	34	79	H-5850	80	79			
34	H-5805	35	H-5738	35	80	H-5851	81	80			
35	H-5807	36	H-5739	36	81	H-5806	82	81			
36	H-5812	37	H-5734	37	82	H-5852	83	82			
37	H-5816	38	H-5740	38	83	H-5853	84	83			
38	H-5811	39	H-5741	39	84	H-5854	85	84			
39	H-5817	40	H-5742	40	85	H-5855	86	85			
40	H-5806	41	H-5743	41	86	H-5856	87	86			
41	H-5812	42	H-5744	42	87	H-5857	88	87			
42	H-5807	43	H-5727	43	88	H-5858	89	88			
43	H-5818	44	H-5745	44	89	H-5859	90	89			
44	H-5819	45	H-5746	45	90	H-5860	91	90			
45	H-5820	46	H-5747	46	63						

* When Multiple (ee) Attachment is used, H-2522 is replaced in upper slot No. 2 by H-4060, in lower slot No. 1 by H-5728, and H-4059 is used in upper slot No. 1.



D-304



D-802



D-3126



H-5708



H-5709

H-5701 (L.H.)
H-5702 (R.H.)

F-689



F-717



8-322 (R.H.)



A-112



E-304



E-1024



D-4505



I-3207



H-518



H-2831 (R.H.)



D-965



D-327

H-2516
(L.H.) (UPPER)

D-717



D-1231



D-965



H-2629



G-966



H-5700



E-25



H-5704



H-5705



I-5948



D-4534



H-2847 (BACK)



H-4459 (FRONT (L.H.))



H-2848 (FRONT (R.H.))



H-71



J-4791



H-5718



H-5703 (L.H.)

H-5717 (L.H.)
H-5699 (R.H.)

H-5729



H-5780 (R.H.)

A- 112 Keyboard rod, long, frame fulcrum pin, r.h., screw	29-30	H-2848 Keyboard rod frame link stud, front, r.h.	29-30
B- 322 Keyboard rod, long, frame fulcrum pin, r.h., assembled	29-30	H-4459 Keyboard rod frame link stud, front, l.h.	29-30
D- 304 Keyboard rod, long, frame adjusting screw 8-32 x 1 1/4"	29-30	H-5699 Keyboard rod frame link, r.h.	29-30
D- 327 Keyboard rod, long, frame bracket, l.h., upper, dowel 1/8" x 7/8"	29-30	H-5700 Keyboard rod frame lever shaft, long	29-30
D- 717 Keyboard rod, long, frame bracket, l.h., upper, screw 1/4"-24 x 1 3/16"	29-30	H-5701 Keyboard rod, long, frame fulcrum bracket, l.h.	29-30
D- 802 Keyboard rod, long, frame adjusting screw nut 8-32 x 5/16"	29-30	H-5702 Keyboard rod, long, frame fulcrum bracket, r.h.	29-30
D- 802 Keyboard rod frame link stud nut	29-30	H-5703 Keyboard rod frame link lever, bracket, l.h.	29-30
D- 965 Keyboard rod, long, frame bracket, r.h., dowel 5/32" x 1/2"	29-30	H-5704 Keyboard rod frame lever shaft connecting bracket	29-30
D- 965 Keyboard rod, long, frame extension dowel 5/32" x 1/2"	29-30	H-5705 Keyboard rod frame lever shaft, short	29-30
D-1231 Keyboard rod, long, frame extension screw 10-32 x 5/8"	29-30	H-5708 Keyboard rod, long, frame fulcrum bracket, l.h., pin, assembled	29-30
D-3126 Keyboard rod, long, frame fulcrum pin, l.h., screw	29-30	H-5709 Keyboard rod, long, frame fulcrum bracket, l.h., screw	29-30
D-4505 Face plate frame cover stud	29-30	H-5717 Keyboard rod frame link, l.h.	29-30
D-4534 Keyboard rod frame link stud lock washer	29-30	H-5718 Keyboard rod frame shaft lever	29
E- 25 Keyboard rod, frame shaft lever set screw	29	H-5729 Keyboard rod frame link lever	29-30
E- 304 Keyboard rod, long, frame dowel 5/32" x 11/16"	29-30	H-5760 Keyboard rod frame link lever bracket, r.h.	29-30
E-1024 Keyboard rod, long, frame screw 1/4"-24 x 3/4"	29-30	I-3207 Keyboard rod, long, frame bracket, l.h., upper, screw 1/4"-24 x 5/8"	29-30
F- 689 Keyboard rod, long, frame fulcrum bracket, r.h., screw	29-30	I-3207 Keyboard rod, long, frame screw, l.h., upper	29-30
F- 717 Keyboard rod, long, frame fulcrum bracket, r.h. and l.h., screw washer	29-30	I-3207 Keyboard rod, long, frame screw, r.h., lower 1/4"-24 x 5/8"	29-30
G- 956 Keyboard rod frame shaft lever pin nut	29-30	I-3207 Keyboard rod, long, frame bracket, r.h., screw 1/4"-24 x 5/8"	29-30
H- 71 Keyboard rod frame lever shaft connecting bracket pin	29-30	I-5948 Keyboard rod, frame shaft lever pin	29-30
H- 71 Keyboard rod frame link lever pin	29-30	J-4791 Keyboard rod, frame link lever bracket, r.h., screw	29-30
H- 518 Keyboard rod, long, frame bracket, r.h., screw 5/16"-18 x 3/4"	29-30		
H-2516 Keyboard rod, long, frame bracket, l.h., upper	29-30	<u>Parts Not Illustrated</u>	
H-2629 Keyboard rod, long, frame extension	29-30	H-3958 Keyboard rod, long, frame	29-30
H-2831 Keyboard rod, long, frame bracket, r.h.	29-30	H-5766 Keyboard rod frame lever shaft, assembled	29-30
H-2847 Keyboard rod frame link stud, back	29-30	H-5776 Keyboard rod, long, frame	29-30

Please Give Model and Serial Number When Ordering



H-3220 (72 CHAR.)
H-4443 (72 CHAR.) (STAMPED WITH LETTER "N")



H-2632 (90 CHAR.)
H-4442 (90 CHAR.) (STAMPED WITH LETTER "N")



H-2637



H-5765



H-5716



H-2627



H-5774



H-2633 (72 CHAR.)



H-2634 (72 CHAR.)



H-2626 (LOWR)



H-4114



H-1765



B-471



H-2635 (L.H.)



H-4795

H-5710

H-2636 (R.H.)



H-5763



G-274

H-1516
(WITH H-2625)

G-139



H-46



H-165



G-123

H-4794
(WITH H-4795 AND H-5763)

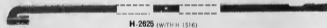
H-503



H-5711



A-112

H-2825 (WITH H-1516)
H-4796 (WITH H-4794)

H-2754



*KEYBOARD ROD



D-979



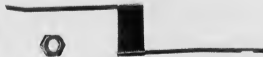
*KEYBOARD ROD



J-479



H-4113



*KEYBOARD ROD



F-2445



J-1228

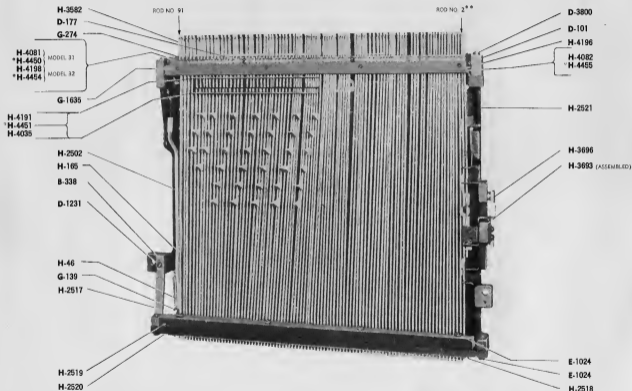
Assembling Mechanism

Models 29 (72-90) 30 (72-90)

Keyboard Rod, Long, Frame 49

A- 112	Keyboard rod keeper plate screw 8-32 x 3/8"	29-30	H-2634	Keyboard rod keeper plate (50 character)	29-30
B- 261	Keyboard rod guide, upper, support fulcrum rod dowel 5/32" x 25/32"	29-30	H-2635	Keyboard rod guide, upper, support, l.h.	29-30
B- 471	Keyboard rod guide, upper, support, l.h., locking screw 8-32 x 7/8"	29-30	H-2636	Keyboard rod guide, upper, support, r.h.	29-30
D- 498	Spaceband lever key rod pin	29-30	H-2637	Keyboard rod guide, upper, support fulcrum rod	29-30
D- 802	Keyboard rod guide, upper, support, l.h., locking screw nut 8-32 x 5/16"	29-30	H-2754	Keyboard rod lug	30
D- 979	Keyboard rod keeper plate screw 10-32 x 3/8"	29-30	H-3220	Keyboard rod guide, upper (72 character)	29-30
F-2445	Keyboard rod lever slide safety bar nut lock washer	29-30	H-4113	Keyboard rod lever slide safety bar stud	29-30
G- 123	Keyboard rod guide screw 6-48 x 5/32"	29-30	H-4114	Keyboard rod lever slide safety bar	29-30
G- 139	Spaceband lever key rod spring hook	29-30	H-4442	Keyboard rod guide, upper (90 character)	29-30
G- 274	Keyboard rod guide, intermediate, bracket screw	29-30	H-4443	Keyboard rod guide, upper (72 character)	29-30
H- 46	Spaceband lever key rod spring	29-30	H-4794	Spaceband lever key rod connection	29-30
H- 165	Spaceband lever key rod hook	29-30	H-4795	Spaceband lever key rod pin	29-30
H- 503	Spaceband lever key rod connection rivet	29-30	H-4796	Spaceband lever key rod, assembled	29-30
H-1516	Spaceband lever key rod connection	29-30	H-5710	Spaceband lever key rod, short, guide	29-30
H-1765	Keyboard rod guide, upper, screw	29-30	H-5711	Spaceband lever key rod, short	29-30
H-2625	Spaceband lever key rod, assembled	29-30	H-5716	Keyboard rod guide, intermediate, bracket	29-30
H-2626	Keyboard rod banking bar, lower	29-30	H-5763	Spaceband lever key rod, assembled	29-30
H-2627	Keyboard rod guide, lower, back	29-30	H-5765	Keyboard rod guide, intermediate	29-30
H-2627	Keyboard rod guide, lower, front	29-30	H-5774	Keyboard rod, long, keeper plate	29-30
H-2632	Keyboard rod guide, upper (90 character)	29-30	J- 479	Keyboard rod banking bar, lower, dowel 3/32" x 3/8"	29-30
H-2633	Keyboard rod keeper plate (72 character)	29-30	J-1228	Keyboard rod lever slide safety bar nut 10-32 x 5/16"	29-30
			<u>Parts Not Illustrated</u>		
			H-5775	Keyboard rod guide, lower, assembled	29-30

Please Give Model and Serial Number When Ordering



BACK VIEW

H-4199 Model 31 TO SERIAL NO. 52742

H-4200 Model 32 TO SERIAL NO. 52742

H-4600	{	Model 5	FROM SERIAL NO. 52743 TO 61819
		Model 31	
		Model 32	

H-4571 Model 32 FROM SERIAL NO. 52749 TO 52722

H-5682 Model 31-32 FROM SERIAL NO. 61819

*For Models 31 and 32 above Serial No. 52742.

**See Note on Opposite Page.

Check Parts by Referring to Detail Pages.

Assembling Mechanism

Models 5-31-32

Keyboard Rods 51

Row	Model 5				Model 5				
Row No.	†Model 31	†Model 32	‡Model 32	‡Model 32	Row No.	†Model 31	†Model 32	‡Model 32	‡Model 32
0					46	H-4086	H-4086	H-4492	H-4492
1	*H-4083	*H-4083	*H-4475	*H-4475	47	H-4087	H-4087	H-4493	H-4590
2	H-4083	H-4083	H-4475	H-4475	48	H-4087	H-4087	H-4494	H-4492
3	H-4083	H-4083	H-4475	H-4475	49	H-4088	H-4124	H-4496	H-4590
4	H-4083	H-4083	H-4475	H-4475	50	H-4088	H-4126	H-4498	H-4591
5	H-4083	H-4083	H-4475	H-4475	51	H-4088	H-4128	H-4500	H-4593
6	H-4083	H-4083	H-4476	H-4476	52	H-4088	H-4130	H-4502	H-4594
7	H-4083	H-4083	H-4476	H-4476	53	H-4089	H-4132	H-4504	H-4596
8	H-4083	H-4083	H-4477	H-4477	54	H-4089	H-4134	H-4506	H-4598
9	H-4083	H-4083	H-4478	H-4478	55	H-4089	H-4136	H-4508	H-4598
10	H-4083	H-4083	H-4479	H-4479	56	H-4089	H-4138	H-4510	H-4597
11	H-4083	H-4083	H-4480	H-4480	57	H-4089	H-4140	H-4512	H-4598
12	H-4084	H-4084	H-4481	H-4481	58	H-4089	H-4142	H-4514	H-4599
13	H-4084	H-4084	H-4482	H-4482	59	H-4089	H-4143	H-4516	H-4598
14	H-4084	H-4084	H-4481	H-4481	60	H-4089	H-4144	H-4518	H-4597
15	H-4084	H-4084	H-4482	H-4482	61	H-4089	H-4145	H-4520	H-4597
16	H-4084	H-4084	H-4481	H-4481	62	H-4089	H-4147	H-4522	H-4597
17	H-4084	H-4084	H-4482	H-4482	63	H-4089	H-4138	H-4524	H-4596
18	H-4084	H-4084	H-4482	H-4482	64	H-4089	H-4148	H-4526	H-4595
19	H-4084	H-4084	H-4479	H-4479	65	H-4089	H-4149	H-4528	H-4597
20	H-4084	H-4084	H-4480	H-4480	66	H-4089	H-4150	H-4530	H-4597
21	H-4084	H-4084	H-4481	H-4481	67	H-4088	H-4152	H-4532	H-4597
22	H-4084	H-4084	H-4482	H-4482	68	H-4088	H-4154	H-4534	H-4595
23	H-4084	H-4084	H-4482	H-4482	69	H-4088	H-4156	H-4536	H-4594
24	H-4084	H-4084	H-4483	H-4483	70	H-4088	H-4158	H-4538	H-4592
25	H-4085	H-4085	H-4485	H-4581	71	H-4088	H-4159	H-4540	H-4593
26	H-4085	H-4085	H-4486	H-4582	72	H-4088	H-4161	H-4542	H-4592
27	H-4085	H-4085	H-4486	H-4583	73	H-4086	H-4163	H-4544	H-4492
28	H-4085	H-4085	H-4487	H-4584	74	H-4086	H-4165	H-4546	H-4491
29	H-4085	H-4085	H-4487	H-4584	75	H-4086	H-4167	H-4548	H-4491
30	H-4085	H-4085	H-4486	H-4583	76	H-4085	H-4169	H-4550	H-4586
31	H-4085	H-4085	H-4485	H-4581	77	H-4084	H-4171	H-4552	H-4585
32	H-4085	H-4085	H-4484	H-4580	78	H-4084	H-4173	H-4554	H-4585
33	H-4084	H-4084	H-4485	H-4581	79	H-4084	H-4175	H-4556	H-4583
34	H-4084	H-4084	H-4486	H-4582	80	H-4084	H-4177	H-4558	H-4583
35	H-4085	H-4085	H-4487	H-4584	81	H-4084	H-4179	H-4560	H-4582
36	H-4085	H-4085	H-4488	H-4585	82	H-4084	H-4181	H-4562	H-4581
37	H-4085	H-4085	H-4483	H-4483	83	H-4084	H-4183	H-4564	H-4580
38	H-4085	H-4085	H-4484	H-4581	84	H-4083	H-4185	H-4566	H-4580
39	H-4085	H-4085	H-4485	H-4582	85	H-4083	H-4187	H-4568	H-4483
40	H-4084	H-4084	H-4487	H-4583	86	H-4083	H-4189	H-4570	H-4481
41	H-4085	H-4085	H-4488	H-4585	87	H-4083	H-4083	H-4480	H-4480
42	H-4085	H-4085	H-4487	H-4584	88	H-4083	H-4083	H-4479	H-4479
43	H-4086	H-4086	H-4489	H-4586	89	H-4083	H-4083	H-4478	H-4478
44	H-4086	H-4086	H-4490	H-4490	90	H-4083	H-4083	H-4477	H-4477
45	H-4086	H-4086	H-4491	H-4491					

†To Serial No. 52741.

‡From Serial No. 52742.

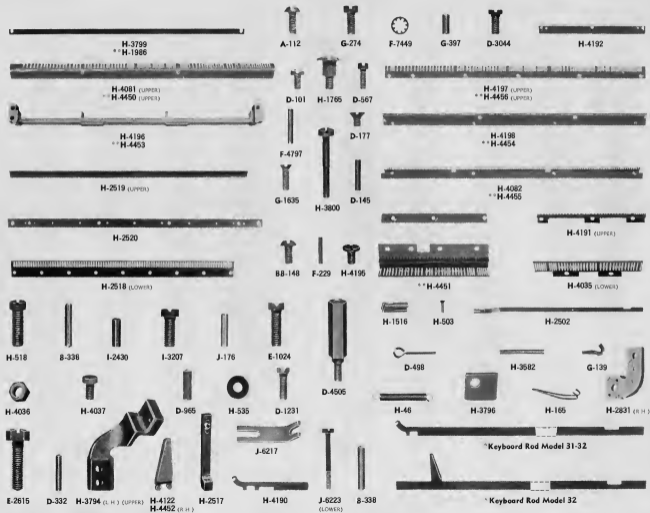
†From Serial No. 52742 to Serial No. 51223.

‡From Serial No. 51223.

*When Multiple (cc) Attachment is used H-4082 or H-4475 is replaced in upper slot

No. 2 by H-4092, in lower slot No. 1 by H-2095 and in upper slot No. 1 H-4025 is used.

Please Give Model and Serial Number When Ordering



* See table on opposite page for part numbers
 ** For Models 31 and 32 above serial No. 52742

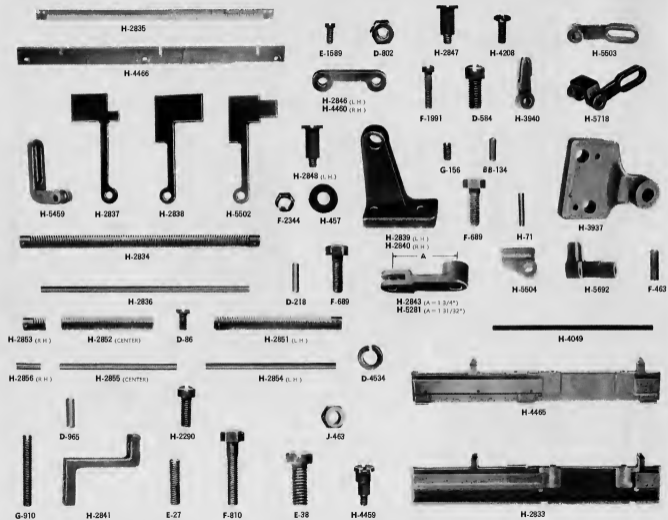
Assembling Mechanism

Models 5-31-32

Keyboard Rod, Long, Frame 53

A- 112	Keyboard rod guide, upper, strip screw 8-32 x 3/8"	5-31-32	H-2517	Keyboard rod, long, frame extension	5-31-32
B- 338	Keyboard rod, long, frame extension dowel 5/32" x 3/8"	5-31-32	H-2518	Keyboard rod, long, guide, lower	5-31-32
B- 338	Keyboard rod, long, frame dowel	5-31-32	H-2519	Keyboard rod, long, banking bar, upper	5-31-32
BB-148	Keyboard rod, long, guide, lower, screw 8-32 x 5/16"	5-31-32	H-2520	Keyboard rod, long, banking bar, upper, supporting strip	5-31-32
D- 101	Keyboard rod guide, upper, screw, small 4-48 x 3/16"	31	H-2831	Keyboard rod, long, frame bracket, r.h.	31-32
D- 101	Keyboard rod spring hook strip support screw, small 4-48 x 3/16"	32	H-3582	Keyboard rod spring	6-31-32
D- 145	Keyboard rod, long, banking bar, upper, dowel 1/8" x 5/8"	5-31-32	H-3794	Keyboard rod, long, frame bracket, l.h., upper	31-32
D- 177	Keyboard rod spring hook strip screw 4-48 x 3/16"	5-31-32	H-3796	Keyboard rod, long, frame spacer	5-31-32
D- 332	Keyboard rod, long, frame bracket, l.h., upper, dowel 1/8" x 3/4"	5-31-32	H-3799	Keyboard rod guide, upper, strip	5-31
D- 498	Spaceband lever key rod pin	31-32	H-3800	Keyboard rod guide, upper, support screw 8-32 x 1 5/16"	5-31-32
D- 567	Keyboard rod guide, upper, screw, small	5-31-32	H-4035	Keyboard rod guide, intermediate, lower	32
D- 965	Keyboard rod, long, frame bracket, r.h., dowel 5/32" x 1/2"	5-31-32	H-4036	Keyboard rod, long, frame bracket, r.h., adjusting screw lock nut 8-32 x 1/4"	6-31-32
D-1231	Keyboard rod, long, frame extension screw 10-32 x 5/8"	5-31-32	H-4037	Keyboard rod, long, frame bracket, r.h., adjusting screw	5-31-32
D-3044	Keyboard rod extension banking strip screw 8-32 x 11/32"	32	H-4081	Keyboard rod guide, upper	31
D-4505	Face plate frame cover screw	31-32	H-4082	Keyboard rod spring hook strip	31-32
E-1024	Keyboard rod, long, banking bar, upper, supporting strip screw 1/4"-24 x 3/4"	5-31-32	H-4121	Keyboard rod guide, intermediate, plate	32
E-1024	Keyboard rod, long, banking bar, upper, screw 1/4"-24 x 3/4"	5-31-32	H-4122	Keyboard rod lug	32
E-1024	Keyboard rod, long, frame screw, l.h., lower 1/4"-24 x 3/4"	31-32	H-4190	Keyboard rod extension	32
E-2615	Keyboard rod, long, frame bracket, l.h., upper, screw 1/4"-24 x 1"	31-32	H-4191	Keyboard rod guide, intermediate, upper	32
F- 229	Keyboard rod, long, banking bar, upper, supporting strip dowel 3/32" x 9/16"	5-31-32	H-4192	Keyboard rod extension banking strip	32
F-4797	Keyboard rod, guide, upper, support dowel 1/8" x 3/4"	31-32	H-4195	Keyboard rod guide, intermediate, screw 10-32 x 5/16"	32
F-7449	Keyboard rod guide, upper, support screw lock washer	5-31-32	H-4196	Keyboard rod guide, upper, support	31-32
G- 139	Spaceband lever key rod spring hook	5-31-32	H-4197	Keyboard rod guide, upper	32
G- 274	Keyboard rod guide, upper, screw 8-32 x 3/8"	32	H-4198	Keyboard rod spring hook strip support	32
G- 397	Keyboard rod extension banking strip dowel 1/8" x 11/32"	32	H-4450	Keyboard rod guide, upper	5-31
G-1635	Keyboard rod guide, upper, screw, large 6-48 x 7/16"	5-31	H-4451	Keyboard rod guide, intermediate	32
G-1635	Keyboard rod spring hook strip support screw, large 6-48 x 7/16"	32	H-4452	Keyboard rod lug, r.h.	32
H- 46	Spaceband lever key rod spring	5-31-32	H-4453	Keyboard rod guide, upper, support	5-31-32
H- 165	Spaceband lever key rod hook	5-31-32	H-4454	Keyboard rod spring hook strip support	32
H- 503	Spaceband lever key rod connection rivet	5-31-32	H-4455	Keyboard rod spring hook strip	5-31-32
H- 518	Keyboard rod, long, frame bracket, r.h., screw 6/16"-18 x 3/4"	31-32	H-4456	Keyboard rod guide, upper	32
H- 535	Escapement lever cover fastening screw, lower, washer	31-32	I-2430	Keyboard rod, long, frame dowel, r.h. 3/16" x 9/16"	31-32
H-1516	Spaceband lever key rod connection	31-32	I-3207	Keyboard rod, long, frame screw, r.h., lower 1/4"-24 x 5/8"	5-31-32
H-1765	Keyboard rod guide, upper, screw	32	I-3207	Keyboard rod, long, frame screw, l.h., upper 1/4"-24 x 6/8"	5-31-32
H-1986	Keyboard rod guide, upper, strip	32	J- 176	Keyboard rod, long, frame bracket, l.h., upper, dowel, lower 1/8" x 9/16"	31-32
H-2502	Spaceband lever key rod, assembled	5-31-32	J-6217	Escapement lever cover bar bracket	31-32
			J-6223	Escapement lever cover fastening screw, lower	31-32
			<u>Parts Not Illustrated</u>		
			H-2521	Keyboard rod, long, frame	5-31-32

Please Give Model and Serial Number When Ordering



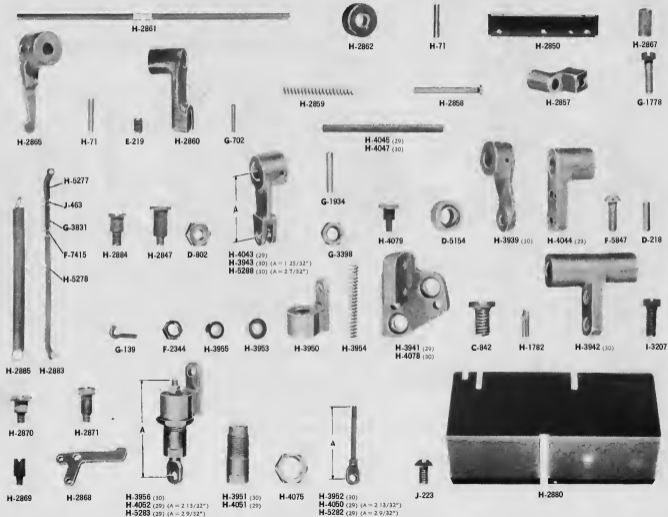
8B-134 Keyboard rod lever guide dowel 1/8" x 3/8"	29-30	H-2836 Keyboard rod lever rod	29
8B-134 Keyboard rod lever fulcrum bracket dowel	29	H-2837 Keyboard rod lever (No. 2 to No. 90)	29-30
8B-134 Keyboard rod lever fulcrum bracket, r.h., dowel	30	H-2838 Keyboard rod lever (No. 1 and No. 91)	29-30
8B-134 Keyboard rod lever fulcrum bracket, l.h., dowel	30	H-2839 Keyboard rod lever slide arm lever bracket, l.h.	29-30
8B-134 Keyboard rod, auxiliary, lever fulcrum bracket, center, dowel	30	H-2840 Keyboard rod lever slide arm lever bracket, r.h.	29-30
D-86 Keyboard rod, auxiliary, lever fulcrum bracket, center screw 8-32 x 5/32"	30	H-2841 Keyboard rod lever stop bracket	29-30
D-218 Keyboard rod lever guide support dowel	29-30	H-2843 Keyboard rod lever slide link lever	29-30
D-218 Keyboard rod lever slide arm lever bracket, r.h. and l.h., dowel 1/8" x 1/2"	29-30	H-2846 Keyboard rod lever slide link, l.h.	29-30
D-584 Keyboard rod lever slide shaft bracket screw 1/4"-24 x 1/2"	29-30	H-2847 Keyboard rod lever slide link stud	29-30
D-802 Keyboard rod lever slide stud nut 8-32 x 5/16"	29-30	H-2847 Keyboard rod lever slide shaft lever stud	29-30
D-802 Keyboard rod lever slide link stud nut 8-32 x 5/16"	29-30	H-2848 Keyboard rod lever slide stud, l.h.	29-30
D-802 Keyboard rod lever slide shaft lever stud nut 8-32 x 5/16"	29-30	H-2851 Keyboard rod lever fulcrum bracket, l.h.	30
D-965 Keyboard rod lever slide stop bracket dowel 5/32" x 1/2"	29-30	H-2852 Keyboard rod, auxiliary, lever fulcrum bracket, center	30
D-4534 Keyboard rod lever slide stud, r.h., lock washer	29-30	H-2853 Keyboard rod lever fulcrum bracket, r.h.	30
E-27 Keyboard rod lever slide stop screw, back 1/4"-24 x 1"	29-30	H-2854 Keyboard rod lever rod, l.h.	30
E-38 Keyboard rod lever slide bracket screw, front, r.h. 3/8"-18 x 7/8"	29-30	H-2855 Keyboard rod lever rod, center	30
E-1589 Keyboard rod lever guide screw 8-32 x 11/32"	29-30	H-2856 Keyboard rod lever rod, r.h.	30
F-463 Keyboard rod lever slide shaft bracket dowel 3/16" x 5/8"	29-30	H-3937 Keyboard rod lever slide shaft bracket	29-30
F-689 Keyboard rod lever slide bracket screw, lower 1/4"-24 x 3/4"	29-30	H-3940 Keyboard rod lever slide shaft lever	29-30
F-689 Keyboard rod lever slide arm lever bracket, r.h. and l.h., screw	29-30	H-4049 Keyboard rod slide lever shaft	29-30
F-810 Keyboard rod lever slide bracket screw, front, l.h. 1/4"-24 x 1 3/8"	29-30	H-4208 Keyboard rod lever guide support screw	29-30
F-1991 Keyboard rod lever fulcrum bracket screw 8-32 x 3/4"	29	H-4459 Keyboard rod lever slide stud, r.h.	29-30
F-1991 Keyboard rod lever fulcrum bracket, r.h., screw	30	H-4460 Keyboard rod lever slide link, r.h.	29-30
F-1991 Keyboard rod lever fulcrum bracket, r.h., screw	30	H-4465 Keyboard rod lever slide	29-30
F-2344 Keyboard rod lever slide link nut	29	H-4466 Keyboard rod lever guide support	29-30
G-156 Keyboard rod lever rod set screw 8-32 x 5/16"	29	H-5281 Keyboard rod lever slide link lever	29-30
G-156 Keyboard rod lever rod, r.h., set screw	30	H-5459 Keyboard rod lever slide link lever arm	29-30
G-156 Keyboard rod lever rod, l.h., set screw	30	H-5502 Keyboard rod lever (No. 91) (spaceband)	30
G-910 Keyboard rod lever slide stop screw, front 1/4"-24 x 1 3/4"	29-30	H-5503 Keyboard rod lever slide shaft lever	29
H-71 Keyboard rod lever slide link lever dowel 1/8" x 11/16"	29-30	H-5504 Keyboard rod lever slide shaft lever	30
H-71 Keyboard rod lever slide shaft lever pin	29-30	H-5692 Keyboard rod frame shaft lever	30
H-457 Keyboard rod lever slide link lever arm screw washer	30	H-5718 Keyboard rod frame shaft lever	29
H-2290 Keyboard rod lever slide stop bracket screw 1/2"-24 x 5/8"	29-30	J-463 Keyboard rod lever slide stop screw nut 1/4"-24 x 3/8"	29-30
H-2833 Keyboard rod lever slide	29-30		
H-2834 Keyboard rod lever fulcrum bracket	29		
H-2835 Keyboard rod lever guide	29-30		

Parts Not Illustrated

H-2832 Keyboard rod lever slide bracket	29-30
H-4055 Keyboard rod lever slide bracket, assembled	29
H-4056 Keyboard rod lever slide bracket, assembled	30
H-5505 Keyboard rod lever slide bracket, assembled	29
H-5506 Keyboard rod lever slide bracket, assembled	30

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Please Give Model and Serial Number When Ordering



C- 842	Keyboard rod lever slide operating lever shaft bracket support screw 3/8"-16 x 19/32"	29-30	H-2670	Keyboard rod, long, auxiliary, shifter lever screw	30
D- 218	Keyboard rod lever slide operating lever shaft bracket dowel 1/8" x 1/2"	29-30	H-2871	Keyboard rod, long, auxiliary, shifter lever link screw	30
D- 802	Keyboard rod lever slide operating lever link connecting stud nut 8-32 x 5/16"	29-30	H-2880	Keyboard rod lever slide cover	29-30
D-5154	Keyboard rod lever slide operating cam roll	30	H-2883	Keyboard rod guide, upper, support link, upper and lower section, assembled	30
E- 219	Keyboard rod lever, auxiliary, slide arm set screw 10-32 x 9/32"	30	H-2884	Keyboard rod guide, upper, support link stud	30
F-2344	Keyboard rod lever slide operating lever link nut	29-30	H-2885	Keyboard rod guide, upper, support link spring	30
F-5847	Keyboard rod lever slide operating lever shaft bracket screw	29	H-3939	Keyboard rod lever slide operating cam roll lever	30
F-7415	Keyboard rod guide, upper, support link, lower section, lock nut	30	H-3941	Keyboard rod lever slide operating lever shaft bracket support	29
G- 139	Keyboard rod guide, upper, support link spring hook	30	H-3942	Keyboard rod lever slide operating lever shaft bracket	30
G- 702	Keyboard rod lever, auxiliary, slide arm lever dowel 9/32" x 9/16"	30	H-3943	Keyboard rod lever slide operating cam lever shaft lever	30
G-1778	Keyboard rod, auxiliary, lever slide spring bracket screw 10-32 x 11/16"	30	H-3950	Keyboard rod lever slide operating lever link clevis	29-30
G-1934	Keyboard rod lever slide operating cam roll lever pin 5/32" x .836"	30	H-3951	Keyboard rod lever slide operating lever link spring sleeve	30
G-1934	Keyboard rod lever slide operating lever pin	29	H-3952	Keyboard rod lever slide operating lever link	30
G-3398	Keyboard rod lever slide operating cam roll stud nut 1/4"-24 x 3/8"	30	H-3953	Keyboard rod lever slide operating lever link spring washer	29-30
G-3831	Keyboard rod guide, upper, support link turnbuckle	30	H-3954	Keyboard rod lever slide operating lever link spring	29-30
H- 71	Keyboard rod lever, auxiliary, slide arm shaft collar dowel 1/8" x 11/16"	30	H-3955	Keyboard rod lever slide operating lever link collar	29-30
H- 71	Keyboard rod lever, auxiliary, slide arm dowel	30	H-3956	Keyboard rod lever slide operating lever link, assembled	30
H-1782	Keyboard rod lever slide operating lever shaft bracket support dowel 1/4" x 13/16"	29-30	H-4043	Keyboard rod lever slide operating lever	29
H-2847	Keyboard rod lever slide operating lever link connecting stud	29-30	H-4044	Keyboard rod lever slide operating lever shaft bracket	29
H-2850	Keyboard rod, auxiliary, lever slide	30	H-4045	Keyboard rod lever slide operating lever shaft	29
H-2857	Keyboard rod, auxiliary, lever slide spring bracket	30	H-4047	Keyboard rod lever slide operating cam roll lever shaft	30
H-2858	Keyboard rod, auxiliary, lever slide spring bracket pin	30	H-4050	Keyboard rod lever slide operating lever link	29
H-2859	Keyboard rod, auxiliary, lever slide spring	30	H-4051	Keyboard rod lever slide operating lever link spring sleeve	29
H-2860	Keyboard rod lever, auxiliary, slide arm lever	30	H-4052	Keyboard rod lever slide operating lever link, assembled	29
H-2861	Keyboard rod lever, auxiliary, slide arm shaft	30	H-4075	Keyboard rod lever slide lever link spring sleeve lock nut	29-30
H-2862	Keyboard rod lever, auxiliary, slide arm shaft collar	30	H-4078	Keyboard rod lever slide operating lever shaft bracket support	30
H-2865	Keyboard rod lever, auxiliary, slide arm, assembled	30	H-4079	Keyboard rod lever slide operating cam roll stud	30
H-2867	Keyboard rod, auxiliary, lever slide stop	30	H-5277	Keyboard rod guide, upper, support link, upper section	30
H-2868	Keyboard rod, long, auxiliary, shifter lever	30	H-5278	Keyboard rod guide, upper, support link, lower section	30
H-2869	Keyboard rod, long, auxiliary, shifter lever stud	30	H-5282	Keyboard rod lever slide operating lever link	29
			H-5283	Keyboard rod lever slide operating lever link, assembled	29
			H-5288	Keyboard rod lever slide operating cam lever shaft lever	30
			I-3207	Keyboard rod lever slide operating lever shaft bracket screw 1/4"-24 x 5/8"	30
			J- 223	Keyboard rod lever slide cover screw 10-32 x 5/16"	29-30
			J- 463	Keyboard rod guide, upper, support link, upper section, lock nut	30

Please Give Model and Serial Number When Ordering



H-5531



H-5463



D-5302



C-123



H-518



H-5473



H-5645

H-5462 (LOWER)
(R. H. THREAD)H-5461 (UPPER)
(L. H. THREAD)

H-5648 (LOWER)



G-1934



G-240



H-5460



G-3386



F-2438



F-717



D-4664



H-5530 (L. H.)



H-5528



H-5529

H-5647



H-5645 (R. H.)

C- 123	Keyboard rod lever slide link stud cotter pin	30	H-5461	Keyboard rod lever slide link lever operating lever connecting link, upper, l.h. thread	30
C- 123	Keyboard rod lever slide link lever operating lever pin cotter pin	30	H-5462	Keyboard rod lever slide link lever operating lever connecting link, lower, l.h. thread	30
C- 123	Keyboard spaceband rod link lever operating lever stud cotter pin	30	H-5463	Keyboard rod lever slide link lever operating lever	30
D-4664	Keyboard rod lever slide link lever operating lever connecting link, lower, stud	30	H-5473	Keyboard rod lever slide link lever operating lever connecting link, assembled	30
D-5302	Keyboard rod lever slide link lever operating lever pin	30	H-5528	Keyboard rod lever slide link lever operating lever bracket	30
F- 717	Keyboard rod lever slide link lever operating lever connecting link, lower, stud nut washer	30	H-5529	Keyboard rod lever slide link lever operating lever shaft	30
F-2438	Keyboard rod lever slide link lever operating lever connecting link, lower, stud nut lock washer	30	H-5530	Keyboard rod lever slide link lever operating lever, l.h.	30
G- 240	Keyboard rod lever slide link lever operating lever bracket dowel	30	H-5531	Keyboard rod lever slide link lever operating lever and shaft, assembled	30
G-1934	Keyboard rod lever slide link lever operating lever dowel	30	H-5645	Keyboard rod lever slide link lever operating lever, r.h.	30
G-3398	Keyboard rod lever slide link lever operating lever connecting link, lower, stud nut	30	H-5647	Keyboard rod lever slide link lever operating lever and shaft, assembled	30
H- 518	Keyboard rod lever slide link lever operating lever bracket screw	30	H-5648	Keyboard rod lever slide link lever operating lever connecting link, lower	30
H-5460	Keyboard rod lever slide link	30	H-5649	Keyboard rod lever slide link lever operating lever connecting link, assembled	30

Please Give Model and Serial Number When Ordering



H-2843



H-5541 (29) (A = 2 19/32")
 H-5695 (29) (A = 2 1/16")
 H-5550 (30)



H-5542 (29) (A = 1.051)
 H-5781 (29) (A = .817)
 H-5551 (30)



H-71



E-38



F-689



H-5552 (30)
 H-5543 (29) (A = 1.046)
 H-5773 (29) (A = .8125)



H-5548



H-5546



D-4671



D-4669



H-5553 (30)



H-5544 (29) (WITH H-5543)
 H-5782 (29) (WITH H-5773)



H-5285



H-3950



H-5546



G-3085



D-4667



D-4658



G-744



D-4670



H-4075



H-3965



H-3951



H-3954 (29)
 H-5547 (30)



H-3953



H-5284



D-5302



H-5545 (29) (A = 2.534)
 H-5696 (29) (A = 2.988)



D-4708



H-2847



E-3479



D-802

Assembling Mechanism

Models 29-30 (90 Char.) Keyboard Spaceband Rod Lever Slide 61

D- 802	Keyboard spaceband rod link lever operating lever stud nut	29	H-3955	Keyboard spaceband rod lever slide link collar	29
D- 802	Keyboard spaceband rod lever slide link stud nut	29-30	H-4075	Keyboard spaceband rod lever slide link spring sleeve lock nut	29
D-4666	Keyboard spaceband rod lever slide link housing bushing	30	H-5284	Keyboard spaceband rod lever slide link	29
D-4667	Keyboard spaceband rod lever slide link spring washer	30	H-5285	Keyboard spaceband rod lever slide link, assembled	29
D-4669	Keyboard spaceband rod lever slide link spring collar	30	H-5541	Keyboard spaceband rod link lever shaft	29
D-4670	Keyboard spaceband rod lever slide link spring collar pin	30	H-5542	Keyboard spaceband rod link lever, assembled	29
D-4671	Keyboard spaceband rod lever slide link spring housing	30	H-5543	Keyboard spaceband rod lever slide bracket	29
D-4708	Keyboard spaceband rod link lever operating lever dowel	29	H-5544	Keyboard spaceband rod lever slide bracket, assembled	29
D-5302	Keyboard spaceband rod link lever operating lever stud	30	H-5545	Keyboard spaceband rod link lever operating lever	29
E- 38	Keyboard spaceband rod lever slide bracket screw, front	29-30	H-5546	Keyboard spaceband rod lever slide link, lower	30
E-3479	Keyboard spaceband rod lever slide link, upper, nut, lock washer	30	H-5547	Keyboard spaceband rod lever slide link spring	30
F- 689	Keyboard spaceband rod lever slide bracket screw, lower	29-30	H-5548	Keyboard spaceband rod lever slide link, upper	30
G- 744	Keyboard spaceband rod lever slide link, upper, nut	30	H-5549	Keyboard spaceband rod lever slide link, assembled	30
G-3085	Keyboard spaceband rod lever slide link housing bushing set screw	30	H-5550	Keyboard spaceband rod link lever shaft	30
H- 71	Keyboard spaceband rod link lever pin	29-30	H-5551	Keyboard spaceband rod link lever, assembled	30
H-2843	Keyboard spaceband rod link lever	29-30	H-5552	Keyboard spaceband rod lever slide bracket	30
H-2847	Keyboard spaceband rod link lever operating lever stud	29	H-5553	Keyboard spaceband rod lever slide bracket, assembled	30
H-2847	Keyboard spaceband rod lever slide link stud	29-30	H-5695	Keyboard spaceband rod link lever shaft	29
H-3950	Keyboard spaceband rod lever slide link clevis	29	H-5696	Keyboard spaceband rod link lever operating lever	29
H-3951	Keyboard spaceband rod lever slide link spring sleeve	29	H-5773	Keyboard spaceband rod lever slide bracket	29
H-3953	Keyboard spaceband rod lever slide link spring washer	29	H-5781	Keyboard spaceband rod link lever, assembled	29
H-3954	Keyboard spaceband rod lever slide link spring	29	H-5782	Keyboard spaceband rod lever slide bracket, assembled	29

Please Give Model and Serial Number When Ordering



J-3284 Model 32

First Bank	
Slot No.	Lever
1 & 8	J-3212
2 & 9	J-3224
3 & 10	J-3235
4 & 11	J-3248
5 & 12	J-3260
6 & 13	J-3272

Second Bank	
Slot No.	Lever
1 & 8	J-3214
2 & 9	J-3226
3 & 10	J-3238
4 & 11	J-3250
5 & 12	J-3262
6 & 13	J-3274

Third Bank	
Slot No.	Lever
1 & 8	J-3216
2 & 9	J-3228
3 & 10	J-3240
4 & 11	J-3252
5 & 12	J-3264
6 & 13	J-3278

Fourth Bank	
Slot No.	Lever
1 & 7	J-3218
2 & 8	J-3230
3 & 9	J-3242
4 & 10	J-3254
5 & 11	J-3266
6 & 12	J-3274

Fifth Bank	
Slot No.	Lever
1 & 6	J-3220
2 & 7	J-3232
3 & 8	J-3244
4 & 9	J-3258
5 & 10	J-3268

Sixth Bank	
Slot No.	Lever
1 & 6	J-3222
2 & 7	J-3234
3 & 8	J-3246
4 & 9	J-3256
5 & 10	J-3270

J-3394 Model 30

First Bank	
Slot No.	Lever
1, 7 & 8	J-3391
2 & 9	J-3385
3 & 10	J-3236
4 & 11	J-3248
5 & 12	J-3260
6 & 13	J-3272

Second Bank	
Slot No.	Lever
1, 7 & 8	J-3389
2 & 9	J-3383
3 & 10	J-3238
4 & 11	J-3250
5 & 12	J-3262
6 & 13	J-3276

Third Bank	
Slot No.	Lever
1, 7 & 8	J-3387
2 & 9	J-3381
3 & 10	J-3240
4 & 11	J-3252
5 & 12	J-3264
6 & 13	J-3278

Fourth Bank	
Slot No.	Lever
1 & 7	J-3218
2 & 8	J-3393
3 & 9	J-3242
4 & 10	J-3254
5 & 11	J-3266
6 & 12	J-3274

Fifth Bank	
Slot No.	Lever
1 & 6	J-3220
2 & 7	J-3232
3 & 8	J-3244
4 & 9	J-3258
5 & 10	J-3268

Sixth Bank	
Slot No.	Lever
1 & 6	J-3222
2 & 7	J-3234
3 & 8	J-3246
4 & 9	J-3256
5 & 10	J-3270

G-308	Escapement, auxiliary, rod lever plate screw 1/4"-24 x 7/16"	30-32	J-3252	Escapement, auxiliary, rod lever D, assembled	30-32
I-874	Escapement, auxiliary, rod lever plate dowel 3/16" x 11/32"	30-32	J-3254	Escapement, auxiliary, rod lever L, assembled	30-32
J-3212	Escapement, auxiliary, rod lever No. 1, assembled	32	J-3256	Escapement, auxiliary, rod lever C, assembled	30-32
J-3214	Escapement, auxiliary, rod lever No. 2, assembled	32	J-3258	Escapement, auxiliary, rod lever U, assembled	30-32
J-3216	Escapement, auxiliary, rod lever No. 3, assembled	32	J-3260	Escapement, auxiliary, rod lever M, assembled	30-32
J-3218	Escapement, auxiliary, rod lever No. 4, assembled	30-32	J-3262	Escapement, auxiliary, rod lever F, assembled	30-32
J-3220	Escapement, auxiliary, rod lever No. 5, assembled	30-32	J-3264	Escapement, auxiliary, rod lever W, assembled	30-32
J-3222	Escapement, auxiliary, rod lever No. 6, assembled	30-32	J-3266	Escapement, auxiliary, rod lever Y, assembled	30-32
J-3224	Escapement, auxiliary, rod lever No. 7, assembled	32	J-3268	Escapement, auxiliary, rod lever P, assembled	30-32
J-3226	Escapement, auxiliary, rod lever No. 8, assembled	32	J-3270	Escapement, auxiliary, rod lever V, assembled	30-32
J-3228	Escapement, auxiliary, rod lever No. 9, assembled	32	J-3272	Escapement, auxiliary, rod lever B, assembled	30-32
J-3230	Escapement, auxiliary, rod lever fig. 0, assembled	32	J-3274	Escapement, auxiliary, rod lever J, assembled	30-32
J-3232	Escapement, auxiliary, rod lever, en, em, assembled	30-32	J-3276	Escapement, auxiliary, rod lever G, assembled	30-32
J-3234	Escapement, auxiliary, rod lever E, assembled	30-32	J-3278	Escapement, auxiliary, rod lever K, assembled	30-32
J-3236	Escapement, auxiliary, rod lever T, assembled	30-32	J-3282	Escapement, auxiliary, rod lever locking rod	30-32
J-3238	Escapement, auxiliary, rod lever A, assembled	30-32	J-3381	Escapement, auxiliary, rod lever 9, Z, assembled	30
J-3240	Escapement, auxiliary, rod lever O, assembled	30-32	J-3383	Escapement, auxiliary, rod lever 8, X, assembled	30
J-3242	Escapement, auxiliary, rod lever I, assembled	30-32	J-3385	Escapement, auxiliary, rod lever 7, Q, assembled	30
J-3244	Escapement, auxiliary, rod lever N, assembled	30-32	J-3387	Escapement, auxiliary, rod lever 3, z, assembled	30
J-3246	Escapement, auxiliary, rod lever S, assembled	30-32	J-3389	Escapement, auxiliary, rod lever 2, x, assembled	30
J-3248	Escapement, auxiliary, rod lever H, assembled	30-32	J-3391	Escapement, auxiliary, rod lever 1, q, assembled	30
J-3250	Escapement, auxiliary, rod lever R, assembled	30-32	J-3393	Escapement, auxiliary, rod lever fig. 0, \$, assembled	30

Please Give Model and Serial Number When Ordering



J-2753



D-85



G-308



I-874



J-2755 (FIRST BANK)



J-2765 (R.H.)



A-115



E-38



A-555



B-74



J-3685

J-2760
J-3721 (30) (12 90)
J-5542 (32)

J-2756 (SECOND BANK)



J-2757 (THIRD BANK)



J-2766 (L.H.)



G-3999



D-534

J-5630 (30)
J-5768 (32)

J-2758 (FOURTH BANK)



J-2759 (FIFTH BANK)



J-2762



J-415



J-2751



A-733



D-3404



G-119



G-117



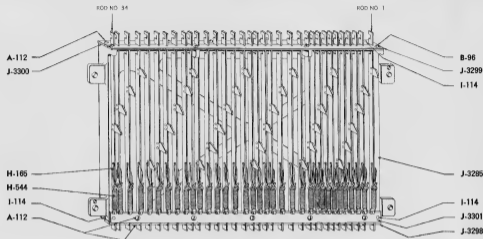
J-2760 (SIXTH BANK)



F-267

A- 115	Escapement, auxiliary, rod lever plate bracket dowel 3/8" x 7/8"	30-32	J- 415	Escapement, auxiliary, rod lever support rivet	30-32
A- 115	Escapement, auxiliary, rod lever plate support dowel	32	J-2751	Escapement, auxiliary, rod lever rivet	30-32
A- 555	Escapement, auxiliary, rod lever plate bracket r.h. screw 3/8"-16 x 1 3/8"	30-32	J-2753	Escapement, auxiliary, rod lever keeper	30-32
A- 733	Escapement, auxiliary, rod lever plate support dowel 3/8" x 7/8"	30-32	J-2755	Escapement, auxiliary, rod lever support, first bank	30-32
B- 74	Escapement, auxiliary, rod lever plate support screw 3/8"-16 x 5/8"	30-32	J-2756	Escapement, auxiliary, rod lever support, second bank	30-32
D- 85	Escapement, auxiliary, rod lever rod keeper screw 4-48 x 3/18"	30-32	J-2757	Escapement, auxiliary, rod lever support, third bank	30-32
D- 85	Escapement, auxiliary, rod lever cover screw	30-32	J-2758	Escapement, auxiliary, rod lever support, fourth bank	30-32
D- 534	Escapement, auxiliary, rod lever locking rod cover screw	30-32	J-2759	Escapement, auxiliary, rod lever support, fifth bank	30-32
D-3404	Pi staker tube clip, intermediate	30	J-2760	Escapement, auxiliary, rod lever support, sixth bank	30-32
E- 38	Escapement, auxiliary, rod lever plate bracket l.h. screw 3/8"-16 x 7/8"	30-32	J-2762	Escapement, auxiliary, rod lever locking rod lug	30-32
E- 267	Pi staker tube clip, intermediate, screw 6-48 x 3/18"	30	J-2765	Escapement, auxiliary, rod lever plate bracket, r.h.	30-32
G- 117	Escapement, auxiliary, rod lever support screw, long 6-48 x 3/8"	30-32	J-2766	Escapement, auxiliary, rod lever plate bracket, l.h.	30-32
G- 119	Escapement, auxiliary, rod lever support screw, short 6-48 x 1/4"	30-32	J-2769	Escapement, auxiliary, rod lever plate support	30
G- 308	Escapement, auxiliary, rod lever plate screw 1/4"-24 x 7/16"	30-32	J-3282	Escapement, auxiliary, rod lever locking rod	30-32
G-3999	Escapement, auxiliary, rod lever plate bracket screw lock washer	30-32	J-3685	Escapement, auxiliary, rod lever plate bracket, r.h. filler piece	30-32
I- 874	Escapement, auxiliary, rod lever plate dowel 3/16" x 11/32"	30-32	J-3721	Escapement, auxiliary, rod lever plate support (72-90)	30
			J-5542	Escapement, auxiliary, rod lever plate support	32
			J-5630	Escapement, auxiliary, rod lever locking rod cover	30
			J-5758	Escapement, auxiliary, rod lever locking rod cover	32
			<u>Parts Not Illustrated</u>		
			J-3280	Escapement, auxiliary, rod lever plate, front	30-32
			J-3281	Escapement, auxiliary, rod lever plate, back	30-32
			J-3283	Escapement, auxiliary, rod lever cover	30-32

Please Give Model and Serial Number When Ordering



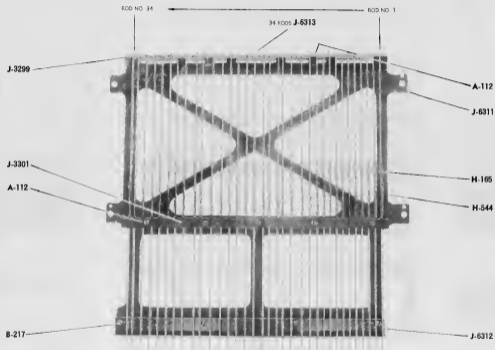
Escapement, Auxiliary, Rod, Assembled

Escapement, Auxiliary, Rod, Assembled						Escapement, Auxiliary, Rod, Assembled										
1		2		3		4		1		2		3		4		
Rod No.	Model 20	Model 30 (72-90)	Model 30	Model 32	Model 32	Rod No.	Model 30	Model 30 (72-90)	Model 30	Model 32	Model 32	Rod No.	Model 30	Model 32	Model 32	
1	J-5104	J-5585	J-6176	J-4823	J-4823	18	J-5194	J-5510	J-6178	J-5540	J-4822	1	J-5194	J-5510	J-6178	J-4822
2	J-5105	J-5590	J-6176	J-5822	J-4822	19	J-5195	J-5505	J-6178	J-5530	J-4822	2	J-5195	J-5505	J-6178	J-4822
3	J-5105	J-5597	J-6178	J-5824	J-4822	20	J-5186	J-5506	J-6178	J-5522	J-4822	3	J-5186	J-5506	J-6178	J-4822
4	J-5190	J-5586	J-6178	J-5526	J-4822	21	J-5188	J-5507	J-6178	J-5524	J-4822	4	J-5188	J-5507	J-6178	J-4822
5	J-5192	J-5589	J-6178	J-5538	J-4822	22	J-5189	J-5508	J-6178	J-5528	J-4822	5	J-5189	J-5508	J-6178	J-4822
6	J-5196	J-5510	J-6178	J-5540	J-4822	23	J-5192	J-5509	J-6178	J-5538	J-4822	6	J-5192	J-5509	J-6178	J-4822
7	J-5194	J-5595	J-6178	J-5539	J-4822	24	J-5194	J-5510	J-6178	J-5540	J-4822	7	J-5194	J-5510	J-6178	J-4822
8	J-5186	J-5588	J-6178	J-5522	J-4822	25	J-5184	J-5506	J-6178	J-5530	J-4822	8	J-5186	J-5506	J-6178	J-4822
9	J-5188	J-5597	J-6178	J-5534	J-4822	26	J-5186	J-5506	J-6178	J-5522	J-4822	9	J-5188	J-5507	J-6178	J-4822
10	J-5190	J-5596	J-6178	J-5538	J-4822	27	J-5188	J-5507	J-6178	J-5524	J-4822	10	J-5190	J-5507	J-6178	J-4822
11	J-5192	J-5599	J-6178	J-5538	J-4822	28	J-5189	J-5508	J-6178	J-5528	J-4822	11	J-5192	J-5508	J-6178	J-4822
12	J-5194	J-5510	J-6178	J-5540	J-4822	29	J-5192	J-5509	J-6178	J-5538	J-4822	12	J-5194	J-5509	J-6178	J-4822
13	J-5194	J-5595	J-6178	J-5539	J-4822	30	J-5194	J-5510	J-6178	J-5540	J-4822	13	J-5194	J-5509	J-6178	J-4822
14	J-5196	J-5586	J-6178	J-5532	J-4822	31	J-5184	J-5506	J-6178	J-5526	J-4822	14	J-5196	J-5506	J-6178	J-4822
15	J-5188	J-5597	J-6178	J-5534	J-4822	32	J-5188	J-5506	J-6178	J-5522	J-4822	15	J-5188	J-5506	J-6178	J-4822
16	J-5190	J-5596	J-6178	J-5538	J-4822	33	J-5188	J-5507	J-6178	J-5524	J-4822	16	J-5190	J-5507	J-6178	J-4822
17	J-5192	J-5599	J-6178	J-5538	J-4822	34	J-5190	J-5508	J-6178	J-5528	J-4822	17	J-5192	J-5508	J-6178	J-4822

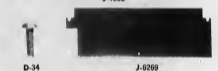
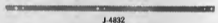
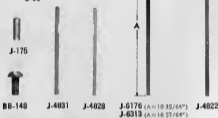
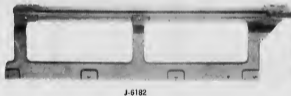
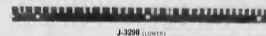
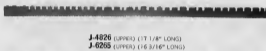
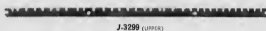
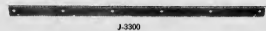
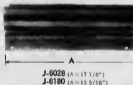
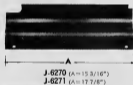
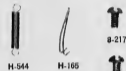
1 TO SERIAL NUMBER 54852
 2 FROM SERIAL NUMBER 54853
 3 TO SERIAL NUMBER 54065
 4 FROM SERIAL NUMBER 54066

1—J-5195 Model 30
 1—J-5511 Model 30 (72-90)
 2—J-6183 Model 30

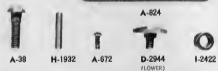
3—J-5541 Model 32
 4—J-4823 Model 32



J-6314 Model 30



LINOTYPE



A- 38	Escapement, auxiliary, rod frame, intermediate screw	30-32	J-3674	Escapement, auxiliary, rod lug	30-32
A- 112	Escapement, auxiliary, rod banking bar screw 8-32 x 3/8"	30-32	J-4718	Escapement, auxiliary, rod frame stud	32
A- 112	Escapement, auxiliary, rod guide, upper, screw	30-32	J-4720	Escapement, auxiliary, rod frame cover, assembled	32
A- 112	Escapement, auxiliary, rod guide, lower, screw	30-32	J-4822	Escapement, auxiliary, rod	32
A- 112	Escapement, auxiliary, rod spring plate screw	30-32	J-4826	Escapement, auxiliary, rod guide, upper	30-32
A- 672	Name plate, auxiliary, rivet	30-32	J-4828	Escapement, auxiliary, intermediate, rod	30-32
A- 824	Name plate, auxiliary	30-32	J-4831	Escapement, auxiliary, intermediate rod and plate, assembled	30-32
B- 96	Escapement, auxiliary, rod guide, upper, screw 4-48 x 1/4"	30-32	J-4832	Escapement, auxiliary, intermediate rod stop strip	30-32
B- 217	Escapement, auxiliary, rod guide, lower, screw	30	J-5428	Escapement, auxiliary, rod frame cover, assembled	30
B- 217	Escapement, auxiliary, rod frame cover screw, lower	30	J-5429	Escapement, auxiliary, rod frame stud	30-32
B- 217	Escapement, auxiliary, intermediate, rod guide, lower, screw	30-32	J-6028	Escapement, auxiliary, rod frame, intermediate, cover	32
BB-148	Escapement, auxiliary, rod frame cover screw 8-32 x 5/16"	30-32	J-6175	Escapement, auxiliary, rod guide, intermediate, lower, screw, l.h.	30-32
BB-148	Escapement, auxiliary, intermediate, rod stud strip screw	30-32	J-6176	Escapement, auxiliary, rod	30
D- 34	Escapement, auxiliary, rod frame cover screw, upper	30-32	J-6178	Escapement, auxiliary, rod guide, lower	30-32
D- 156	Escapement, auxiliary, rod guide, upper, screw, short	30-32	J-6180	Escapement, auxiliary, rod frame, intermediate, cover	30
D- 341	Escapement, auxiliary, rod frame screw	30-32	J-6181	Escapement, auxiliary, rod frame cover	30
D- 802	Escapement, auxiliary, rod frame, intermediate cover screw nut	30	J-6182	Escapement, auxiliary, intermediate, rod frame	30
D-2944	Escapement, auxiliary, rod frame cover screw, lower	30-32	J-6265	Escapement, auxiliary, rod guide, upper	30-32
F- 97	Escapement, auxiliary, rod frame, intermediate, cover screw	30-32	J-6269	Escapement, auxiliary, rod frame cover, assembled	30
H- 165	Escapement, auxiliary, rod spring hook	30-32	J-6270	Escapement, auxiliary, rod frame, intermediate, cover	30
H- 544	Escapement, auxiliary, rod spring	30-32	J-6271	Escapement, auxiliary, rod frame, intermediate, cover	32
H- 582	Escapement, auxiliary, rod lug (72-90)	30	J-6273	Escapement, auxiliary, rod frame cover, assembled	32
H-1932	Escapement, auxiliary, rod frame, intermediate, dowel	30-32	J-6312	Escapement, auxiliary, rod guide, lower	30
I- 114	Escapement, auxiliary, rod guide lower dowel 1/8" x 1/4"	30-32	J-6313	Escapement, auxiliary, rod	30
I- 114	Escapement, auxiliary, rod spring plate dowel	30-32	J-6315	Escapement, auxiliary, rod frame cover	30
I- 114	Escapement, auxiliary, rod banking bar dowel	30-32			
I- 704	Escapement, auxiliary, rod guide, upper, screw, long	30-32			
I-2422	Escapement, auxiliary, rod frame cover spacer	30-32			
J- 175	Escapement, auxiliary, rod guide, lower, dowel	30-32			
J- 175	Escapement, auxiliary, intermediate, rod guide, lower, dowel	30-32	J-3285	Escapement, auxiliary, rod frame	30-32
J-3298	Escapement, auxiliary, rod guide, lower	30-32	J-4823	Escapement, auxiliary, rod frame, assembled	32
J-3299	Escapement, auxiliary, rod guide, upper	30-32	J-6183	Escapement, auxiliary, rod frame, assembled	30
J-3300	Escapement, auxiliary, rod banking bar	30-32	J-6184	Escapement, auxiliary, intermediate, rod frame, assembled	30-32
J-3301	Escapement, auxiliary, rod spring plate	30-32	J-6311	Escapement, auxiliary, rod frame	30
J-3301	Escapement, auxiliary, rod spring plate	30-32	J-6314	Escapement, auxiliary, rod frame, assembled	30

Parts Not Illustrated

Please Give Model and Serial Number When Ordering



J-4892



J-5461 (UPPER) (72 90)



J-5607



J-5608 (UPPER) (72 90)



J-5357
 J-5459 (72 90)
 * J-5600
 * J-5603 (72 90)



G-1173



H-1765



J-4993
 J-5463 (72 90)



J-5464 (72 90)



D-572



J-1043
 J-3672 (72 90)



J-2560
 J-3669 (72 90)
 * J-5599
 * J-5602 (72 90)



BB-148



D-164



I-2430



J-4894



G-156 (72 90)



BB-134

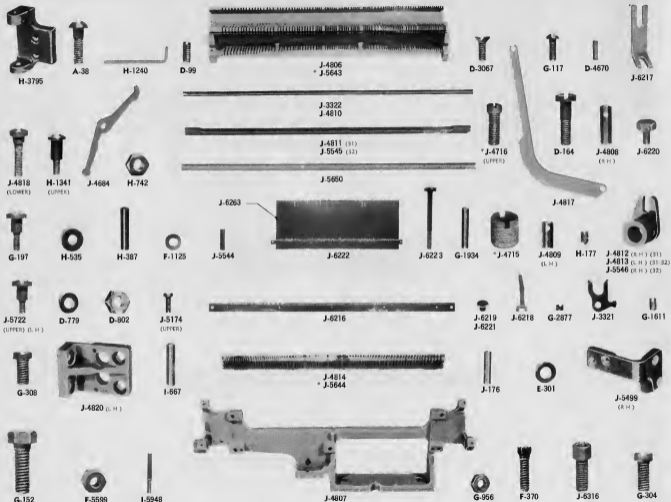
Assembling Mechanism

Models 29-30

Escapement Lever 71

88-134	Escapement lever bar dowel 1/8" x 3/8"	29-30	J-4893	Escapement lever (90)	29-30
88-148	Escapement lever rod screw 8-32 x 5/16"	29-30	J-4894	Escapement lever bar support	29-30
D- 164	Escapement lever bar support screw 1/4"-24 x 15/16"	29-30	J-5367	Escapement lever bar support, assembled	29-30
D- 572	Escapement lever bar support dowel 3/16" x 13/16"	29-30	J-5461	Escapement lever guide, upper (72-90)	29-30
G- 156	Escapement lever rod set screw (72-90) 8-32 x 5/16"	29-30	J-5463	Escapement lever Nos. 48 to 86 (72-90)	29-30
G-1173	Escapement lever bar screw 8-32 x 1/2"	29-30	J-5464	Escapement lever Nos. 1 to 46, 87 to 85 (72-90)	29-30
H-1765	Escapement lever guide screw	29-30	J-5489	Escapement lever bar support, assembled (72-90)	29-30
I-2430	Escapement lever bar support dowel, short 3/16" x 9/16"	29-30	J-5599	Escapement lever bar (90)	29-30
J-1043	Escapement lever rod (90)	29-30	J-5600	Escapement lever bar support, assembled (90)	29-30
J-2560	Escapement lever bar (90)	29-30	J-5602	Escapement lever bar (72-90)	29-30
J-3669	Escapement lever bar (72-90)	29-30	J-5603	Escapement lever bar support, assembled (72-90)	29-30
J-3672	Escapement lever rod (72-90)	29-30	J-5607	Escapement lever guide, assembled (90)	29-30
J-4892	Escapement lever guide (90)	29-30	J-5608	Escapement lever guide, upper, assembled (72-90)	29-30

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 5-31-32

Escapement Lever 73

A- 38	Spaceband key lever bracket screw 14-24 x 3/4"	5-31-32	J-3322	Escapement lever operating lever rod	5-31-32
D- 99	Spaceband key lever hinge pin set screw 8-32 x 3/8"	5-31-32	J-4684	Escapement lever	5-31-32
D- 164	Escapement lever guide screw 1/4"-24 x 15/16"	5-31-32	J-4715	Escapement lever guide adjusting bushing	5-31-32
D- 779	Escapement lever cover bar bracket screw washer	31-32	J-4716	Escapement lever guide screw, upper 1/4"-24 x 21/32"	5-31-32
D- 802	Escapement lever bar bracket screw nut 8-32 x 5/16"	31-32	J-4806	Escapement lever, long, guide	31-32
D-3067	Escapement lever cover bar bracket screw 8-32 x 7/16"	31-32	J-4807	Escapement lever guide support	5-31-32
D-3067	Escapement lever, long, guide, lower, screw 8-32 x 7/16"	31-32	J-4808	Escapement lever guide fulcrum pin, r.h. .440" x 1 5/16"	5-31-32
D-4670	Escapement lever, long, guide (lower, center and upper) dowel 3/32" x 11/32"	31-32	J-4809	Escapement lever guide fulcrum pin, l.h. .440" x 15/16"	5-31-32
E- 301	Escapement lever guide support bracket, r.h. and l.h., screw washer	5-31-32	J-4810	Escapement lever rod	5-31-32
F- 370	Escapement lever guide support adjusting screw 1/4"-20 x 3/4"	5-31-32	J-4811	Escapement lever safety locking shaft	31
F-1125	Escapement lever cover fastening screw, upper, washer	5-31-32	J-4812	Escapement lever safety locking shaft lever, r.h.	31
F-5599	Escapement lever guide support adjusting screw nut 1/4"-30 x 3/8"	5-31-32	J-4813	Escapement lever safety locking shaft lever, l.h.	31-32
G- 117	Escapement lever, long, guide, upper, screw 6-48 x 3/8"	5-31-32	J-4814	Escapement lever, short, guide	31-32
G- 152	Escapement lever guide support screw 3/8"-18 x 1"	5-31-32	J-4817	Escapement lever locking shaft operating link	31
G- 197	Escapement lever locking rod lever stud	32	J-4818	Escapement lever locking shaft operating link stud, lower	31
G- 304	Escapement lever guide support bracket, r.h., screw, short 1/4"-24 x 1/2"	31-32	J-4820	Escapement lever guide support bracket, l.h.	6-31-32
G- 308	Escapement lever guide support bracket, l.h., screw 1/4"-24 x 7/16"	31-32	J-5174	Escapement lever cover fastening screw, upper 4-48 x 9/32"	31-32
G- 956	Escapement lever guide support pin nut 5-40 x 1/4"	5-31-32	J-5499	Escapement lever guide support bracket, r.h.	5-31-32
G-1611	Escapement lever rod set screw 6-48 x 7/32"	5-31-32	J-5544	Escapement lever safety locking rod connecting pin 1/8" x 31/64"	32
G-1934	Escapement lever guide fulcrum pin taper pin 5/32" x .836"	5-31-32	J-5545	Escapement lever safety locking rod and pin, assembled	32
G-2877	Escapement lever rod set screw 6-40 x 3/32"	31-32	J-5546	Escapement lever safety locking rod lever, r.h.	32
H- 177	Escapement lever safety locking shaft lever, r.h. and l.h., set screw 8-32 x 1/4"	31-32	J-5643	Escapement lever, long, guide	5-31-32
H- 387	Escapement lever safety locking rod lever, r.h. and l.h., pin 3/16" x 7/8"	32	J-5644	Escapement lever, short, guide	5-31-32
H- 387	Escapement lever safety locking shaft lever pin 3/16" x 7/8"	31-32	J-5650	Escapement lever banking strip	6-31-32
H- 535	Escapement lever cover fastening screw, lower, washer	31-32	J-5722	Escapement lever locking shaft operating link stud, upper, l.h.	31
H- 742	Escapement lever locking shaft operating link stud, lower, lock nut 10-32 x 3/8"	31-32	J-6216	Escapement lever cover bar	31-32
H-1240	Spaceband key lever hinge pin	5-31-32	J-6217	Escapement lever cover bar bracket	31-32
H-1341	Escapement lever locking shaft operating link stud, upper	31-32	J-6218	Escapement lever cover clip	31-32
H-3795	Spaceband key lever bracket	5-31-32	J-6219	Escapement lever cover clip rivet	31-32
I- 667	Escapement lever, short, guide dowel 3/16" x 7/8"	5-31-32	J-6220	Escapement lever cover bar bracket screw 8-48 x 9/32"	31-32
I-5948	Escapement lever guide support pin	5-31-32	J-6221	Escapement lever cover bar rivet	31-32
J- 176	Escapement lever guide support bracket, r.h., dowel 1/8" x 9/16"	31-32	J-6222	Escapement lever cover, assembled	31-32
J- 176	Escapement lever guide support bracket, l.h., dowel 1/8" x 9/16"	31-32	J-6223	Escapement lever cover fastening screw, lower 8-32 x 1 7/16"	31-32
J-3321	Escapement lever operating lever	5-31-32	J-6263	Escapement lever cover, assembled	31-32
			J-6316	Escapement lever guide support screw	5-31-32

Parts Not Illustrated

J-4816	Escapement lever, long, guide, assembled	31
J-5548	Escapement lever, long, guide, assembled	32
J-5651	Escapement lever, long, guide, assembled	31
J-5652	Escapement lever, long, guide, assembled	32
J-6063	Escapement lever, long, guide, assembled	5

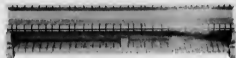
Please Give Model and Serial Number When Ordering



J-4684



J-3321



J-4682

J-3322
J-3323

G-1934



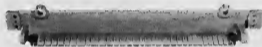
J-4716



G-1611



G-1934



J-3325



D-341



F-463



J-4712 (L.H.)



J-4687



J-4685 (R.H.)



J-5227



J-4715



BB-148



J-5226



G-1213



D-145

H-1765 (A = .255)
J-5767 (A = .317)

J-5224



J-5225

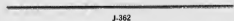
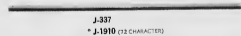
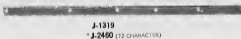
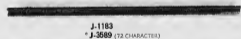
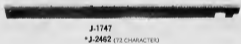
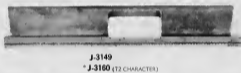
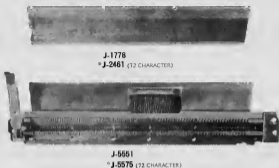
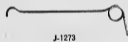
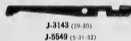
Assembling Mechanism

Models 30-32

Escapement, Auxiliary, Lever 75

B8-148	Escapement, auxiliary, lever rod screw 8-32 x 5/16"	30	J-4682	Escapement, auxiliary, lever guide	32
D-145	Escapement, auxiliary, lever bar dowel 1/8" x 5/8"	30	J-4684	Escapement, auxiliary, lever	32
D-341	Escapement, auxiliary, lever guide support screw 14-24 x 5/8"	32	J-4685	Escapement, auxiliary, lever safety locking rod lever, r.h.	32
F-463	Escapement, auxiliary, lever guide support dowel 3/16" x 5/8"	32	J-4687	Escapement, auxiliary, lever safety locking rod	32
G-1213	Escapement, auxiliary, lever bar screw 8-32 x 11/16"	30	J-4712	Escapement, auxiliary, lever safety locking rod lever, l.h.	32
G-1611	Escapement, auxiliary, lever rod screw 6-48 x 7/32"	32	J-4715	Escapement, auxiliary, lever guide adjusting bushing	32
G-1611	Escapement, auxiliary, lever operating lever rod screw 6-48 x 7/32"	32	J-4716	Escapement, auxiliary, lever guide screw 1/4"-24 x 21/32"	32
G-1934	Escapement, auxiliary, lever guide pin 5/32" x .836"	32	J-5224	Escapement, lever, auxiliary, guide, assembled	30
G-1934	Escapement, auxiliary, lever safety locking rod lever pin 5/32" x .836"	32	J-5225	Escapement, auxiliary, lever	30
H-1765	Escapement, lever, auxiliary, guide screw	30	J-5226	Escapement, auxiliary, lever rod	30
J-3321	Escapement, auxiliary, lever operating lever	32	J-5227	Escapement, auxiliary, lever bar	30
J-3322	Escapement, auxiliary, lever rod	32	J-5767	Escapement, lever, auxiliary, guide screw	30
J-3323	Escapement, auxiliary, lever operating lever rod	32		<u>Parts Not Illustrated</u>	
J-3325	Escapement, auxiliary, lever guide support	32	J-4713	Escapement, auxiliary, lever safety locking rod, assembled	32
			J-4714	Escapement, auxiliary, lever guide, assembled	32

Please Give Model and Serial Number When Ordering



* These parts used on machines equipped for 72 and 90 Character
 ** For part numbers and sizes see table on page 78 and 79

B- 96 Escapement verge, plunger bar screw 4-48 x 1/4"	5-29-30-31-32	J-1273 Escapement verge spring	5-29-30-31-32
C- 116 Escapement dowel 1/4" x 11/16"	5-29-30-31-32	J-1314 Escapement pawl	5-29-30-31-32
D- 84 Escapement end piece pawl spring	5-29-30-31-32	J-1317 Escapement verge	5-29-30-31-32
D- 102 Escapement verge, plunger bar dowel 1/16" x 3/16"	5-29-30-31-32	J-1318 Escapement verge plunger	29-30-31-32
D- 401 Escapement end piece, r.h., dowel 1/8" x 7/16"	5-29-30-31-32	J-1319 Escapement verge plunger bar	5-29-30-31-32
D- 401 Escapement end piece, l.h., dowel 1/8" x 7/16"	5-29-30-31-32	J-1747 Escapement verge partition rack, assembled	5-29-30-31-32
D- 846 Magazine locating piece screw 8-48 x 5/8"	5-29-30-31-32	J-1778 Escapement guard	5-29-30-31-32
E- 192 Escapement guard screw	5-29-30-31-32	J-1910 Escapement verge partition locking rod (72 character)	29-30
G- 274 Escapement end piece, r.h., screw 8-32 x 3/8"	5-29-30-31-32	J-2430 Escapement verge partition	5-29-30-31-32
G- 274 Escapement end piece, l.h., screw 8-32 x 3/8"	5-29-30-31-32	J-2460 Escapement verge plunger bar (72 character)	29-30
G- 956 Escapement end piece pawl adjusting screw		J-2461 Escapement guard (72 character)	29-30
lock nut 5-40 x 1/4"	5	J-2462 Escapement verge partition rack, assembled	
H- 192 Magazine locating piece dowel 3/32" x 5/16"	5-29-30-31-32	(72 character)	29-30
H- 353 Escapement verge plunger push rod guard strap screw	29-30	J-3143 Escapement end piece, pawl	29-30
I- 440 Magazine locating piece	5-29-30-31-32	J-3146 Escapement end piece, r.h.	5-29-30-31-32
I-5036 Magazine frame, intermediate, adjusting banking		J-3147 Escapement end piece, l.h.	29-30
stud 1/4"-24 x 5/8"	29-30	J-3148 Escapement end piece, pawl screw	5-29-30-31-32
I-5036 Magazine frame, upper, adjusting banking		J-3149 Escapement spring bar	5-29-30-31-32
stud 1/4"-24 x 5/8"	29-30-31-32	J-3160 Escapement spring bar (72 character)	29-30
I-5036 Magazine frame, intermediate, adjusting banking		J-3589 Escapement bar (72 character)	29-30
stud, r.h. 1/4"-24 x 5/8"	31-32	J-3756 Escapement verge plunger bar dowel 1/16" x 7/64"	
I-5036 Magazine frame, intermediate, adjusting banking		(72 character)	29-30
stud, l.h. 1/4"-24 x 5/8"	31-32	J-4709 Escapement screw, intermediate	29-30-31-32
I-5207 Magazine frame, intermediate, adjusting banking		J-4709 Escapement screw, lower	29-30
stud lock nut 1/4"-24 x 3/8"	29-30	J-4709 Escapement screw, lower, r.h.	31-32
I-5207 Magazine frame, upper, adjusting banking stud		J-5518 Escapement screw, upper 1/4"-24 x 1/2"	5-29-30-31-32
lock nut 1/4"-24 x 3/8"	29-30-31-32	J-5526 Escapement screw, lower, l.h.	31-32
I-5207 Magazine frame, intermediate, adjusting banking		J-5526 Escapement screw, lower, r.h.	29-30-31-32
stud, r.h., lock nut 1/4"-24 x 3/8"	31-32	J-5527 Escapement end piece, l.h.	5
I-5207 Magazine frame, intermediate, adjusting banking		J-5549 Escapement end piece, pawl	5
stud, l.h., lock nut 1/4"-24 x 3/8"	31-32	J-9550 Escapement end piece, pawl adjusting screw	5
I-5877 Magazine frame, intermediate, adjusting banking		J-5551 Escapement, assembled	5-29-30-31-32
stud, l.h., nut washer	31-32	J-5575 Escapement, assembled (72 character)	29-30
J- 337 Escapement verge partition locking rod	5-29-30-31-32	J-5700 Escapement verge plunger	5-29-30-31-32
J- 362 Escapement verge hinge rod	5-29-30-31-32	J-6095 Escapement verge plunger push rod guard strap	29-30
J- 763 Escapement verge partition rack pin	5-29-30-31-32	J-6290 Escapement pawl	5-29-30-31-32
J-1183 Escapement bar	5-29-30-31-32		

Please Give Model and Serial Number When Ordering

Table Showing Sizes of Verges and Pawls for 90 Character Escapement

Models 5-29-30-31-32														
Chan. No.	Char.	Verge J-1317	Pawl		Chan. No.	Char.	Verge J-1317	Pawl		Chan. No.	Char.	Verge J-1317	Pawl	
			Size	Part No.				Size	Part No.				Size	Part No.
0	e	.085	.045	J-6290	31	fl	.150	.085	J-1314	62	T	.125	.075	J-1314
1	e	.085	.045	J-6290	32	Em Sp.	.150	.085	J-1314	63	A	.150	.085	J-1314
2	t	.100	.045	J-6290	33	,	.085	.035	J-6290	64	O	.125	.075	J-1314
3	a	.100	.055	J-1314	34	.	.085	.035	J-6290	65	I	.100	.050	J-1314
4	o	.085	.045	J-6290	35	:	.085	.045	J-6290	66	N	.125	.065	J-1314
5	i	.085	.035	J-6290	36	;	.085	.045	J-6290	67	S	.110	.065	J-1314
6	n	.085	.055	J-1314	37	?	.085	.055	J-1314	68	H	.125	.095	J-1314
7	s	.085	.045	J-6290	38	En Sp.	.110	.055	J-1314	69	R	.150	.085	J-1314
8	h	.110	.055	J-1314	39	(	.085	.035	J-6290	70	D	.150	.085	J-1314
9	r	.085	.045	J-6290	40	|	.085	.035	J-6290	71	L	.125	.075	J-1314
10	d	.100	.055	J-1314	41	'	.085	.035	J-6290	72	U	.150	.085	J-1314
11	l	.085	.035	J-6290	42	!	.085	.045	J-6290	73	C	.110	.065	J-1314
12	u	.100	.065	J-1314	43	-	.085	.035	J-6290	74	M	.110	.095	J-1314
13	c	.085	.055	J-1314	44	Thin Sp.	.085	.035	J-6290	75	F	.125	.075	J-1314
14	m	.110	.085	J-1314	45	)	.085	.035	J-6290	76	W	.150	.095	J-1314
15	f	.100	.045	J-6290	46	(Leader)	.085	.050	J-1314	77	Y	.150	.085	J-1314
16	w	.110	.085	J-1314	47	'	.085	.035	J-6290	78	P	.125	.075	J-1314
17	y	.110	.055	J-1314	48	°	.085	.050	J-1314	79	V	.150	.085	J-1314
18	p	.100	.035	J-1314	49	1	.085	.050	J-1314	80	B	.110	.075	J-1314
19	v	.085	.055	J-1314	50	2	.100	.050	J-1314	81	G	.150	.075	J-1314
20	b	.110	.055	J-1314	51	3	.085	.050	J-1314	82	K	.110	.085	J-1314
21	g	.100	.055	J-1314	52	4	.085	.050	J-1314	83	Q	.150	.075	J-1314
22	k	.100	.065	J-1314	53	5	.085	.050	J-1314	84	J	.110	.055	J-1314
23	q	.100	.055	J-1314	54	6	.085	.050	J-1314	85	X	.150	.085	J-1314
24	j	.085	.035	J-6290	55	7	.085	.050	J-1314	86	Z	.150	.065	J-1314
25	x	.100	.065	J-1314	56	8	.085	.050	J-1314	87	@	.150	.085	J-1314
26	z	.100	.045	J-6290	57	9	.085	.050	J-1314	88	lb	.110	.085	J-1314
27	fi	.100	.055	J-1314	58	0	.085	.050	J-1314	89	&	.110	.055	J-1314
28	fl	.110	.055	J-1314	59	\$	.100	.050	J-1314	90	—	.150	.085	J-1314
29	ff	.125	.065	J-1314	60	.(Leader)	.125	.095	J-1314					
30	ffi	.150	.085	J-1314	61	E	.125	.085	J-1314					

Please Give Model and Serial Number When Ordering

Table Showing Sizes of Verges, Pawls and Plungers for 72 Character Escapement

Models 29-30

Chan. No.	Char.	Verge J-1317	Pawl J-1314	Plunger	Chan. No.	Char.	Verge J-1317	Pawl J-1314	Plunger	Chan. No.	Char.	Verge J-1317	Pawl J-1314	Plunger
0	e	.125	.045	J-5675	26	z	.085	.045	J-5699	52	D	.125	.085	J-5691
1	e	.085	.045	J-5668	27	,	.065	.035	J-5701	53	L	.125	.075	J-5687
2	t	.110	.045	J-5679	28	.	.085	.035	J-5702	54	U	.125	.085	J-5687
3	a	.125	.055	J-5678	29	;	.065	.045	J-5703	55	C	.125	.065	J-5687
4	o	.085	.045	J-5680	30	Em Sp.	.125	.085	J-5669	56	M	.110	.095	J-5680
5	i	.085	.035	J-5677	31	1	.100	.050	J-5670	57	F	.110	.075	J-5669
6	n	.100	.055	J-5696	32	2	.100	.050	J-5671	58	W	.125	.095	J-5694
7	s	.125	.045	J-5672	33	3	.100	.050	J-5684	59	Y	.125	.085	J-5679
8	h	.125	.055	J-5679	34	4	.100	.050	J-5687	60	P	.125	.075	J-5676
9	r	.100	.045	J-5672	35	5	.085	.050	J-5669	61	V	.125	.085	J-5691
10	d	.085	.055	J-5670	36	En Sp.	.100	.050	J-5686	62	B	.125	.075	J-5679
11	l	.085	.035	J-5680	37	6	.100	.050	J-5680	63	G	.125	.075	J-5691
12	u	.125	.065	J-5678	38	7	.085	.050	J-5688	64	K	.110	.085	J-5669
13	c	.125	.055	J-5671	39	8	.085	.050	J-5671	65	Q	.100	.075	J-5690
14	m	.110	.085	J-5674	40	9	.085	.050	J-5674	66	J	.100	.055	J-5676
15	f	.110	.045	J-5684	41	0	.085	.050	J-5673	67	X	.125	.085	J-5687
16	w	.110	.085	J-5683	42	Thin Sp.	.085	.035	J-5681	68	Z	.100	.065	J-5687
17	y	.100	.055	J-5682	43	E	.110	.085	J-5678	69	'	.085	.035	J-5692
18	p	.085	.055	J-5688	44	T	.110	.075	J-5670	70	'	.065	.035	J-5704
19	v	.085	.055	J-5678	45	A	.110	.085	J-5691	71	Thin Sp.	.065	.035	J-5693
20	b	.085	.055	J-5680	46	O	.110	.075	J-5689	72	\$	.085	.050	J-5679
21	g	.085	.055	J-5676	47	I	.125	.055	J-5674					
22	k	.085	.065	J-5669	48	N	.110	.085	J-5690					
23	q	.110	.055	J-5669	49	S	.125	.065	J-5680					
24	j	.085	.035	J-5697	50	H	.125	.095	J-5691					
25	x	.125	.065	J-5698	51	R	.110	.085	J-5680					

Channel numbers are to be counted, starting from left of Escapement, not from Keyboard, due to special nature of Keyboard Layouts used with 72-90 machines. First "e" Channel is considered zero.



MAIN MAGAZINES

Standard (American)—90 Character

	BRASS		LINOLITE	
	With Pi Channel	Without Pi Channel	With Pi Channel	Without Pi Channel
Standard, No. 5, Full length	I-503	I-2863	I-4093	I-3882
Standard, No. 5, $\frac{3}{4}$ length			I-4903	I-4829
Standard, No. 5, $\frac{3}{4}$ length, Entrance			I-4906	I-4832
Standard, No. 5, Short	I-2691	I-2872	I-4094	I-3895
Standard, No. 5, Short, Entrance	I-2261	I-2876	I-4095	I-3919

*Universal (Foreign)—90 Character

Universal, No. 5, Full length	I-1278	I-2864	I-3898	I-4346
Universal, No. 5, $\frac{3}{4}$ length				I-5012
Universal, No. 5, $\frac{3}{4}$ length, Entrance				I-5017
Universal, No. 5, Short	I-2721	I-2873	I-3916	I-4349
Universal, No. 5, Short, Entrance	I-2445	I-2877	I-3924	I-4354

*Universal magazines have seven channels narrower than the standard magazines; viz. Channel No. 3—Character 1, 31—fl, 61—r, 65—Cap. O, 87—Z, 88—G, 89—lb.

72 Character

Magazine, No. 20, Full length		I-2193	I-3929
Magazine, No. 20, $\frac{3}{4}$ length			I-4887
Magazine, No. 20, $\frac{3}{4}$ length, Entrance			I-4885
Magazine, No. 20, Short		I-2092	I-3901
Magazine, No. 20, Short, Entrance		I-2109	I-3904

AUXILIARY MAGAZINES

	BRASS		LINOLITE	
	Standard Wide Channels	Narrow Channels	Standard Wide Channels	Narrow Channels
Wide 34 Channel, Full length	I-3629	{ I-2775 I-3632 I-3647	I-6919	{ I-3935 I-3938 I-6147 I-7153
Wide 34 Channel, Short		{ I-3483 I-3637 I-2754	I-4332	{ I-3907 I-3932 I-4321
Wide 34 Channel, Short, Entrance	I-3355 I-7152	I-2769	I-3910 I-6135	I-4324

¹The standard auxiliary magazine channels are same size as comp. channels of main magazine. The distance between channels being greater in the auxiliary. The first eleven channels fig. 1 to 0 and Em space are cut for matrices with .039" and .045" lugs.

²These auxiliary magazines have channels cut the same size as the lower case channels in the main magazine. The first eleven channels are cut to the same size as the standard condition.

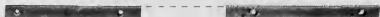
³These auxiliary magazines are specially designed for display matrices. The first eleven channels fig. 1 to 0 and Em space are wider than the standard, being cut to accommodate matrices having .080" lugs, while the remaining channels are the same as the standard. The standard entrance magazine is used.



I-445



G-274



I-399 (90 CHARACTER) (FULL LENGTH)
 I-2088 (72 CHARACTER) (SHORT)
 I-2142 (90 CHARACTER) (SHORT)
 I-2192 (72 CHARACTER) (FULL LENGTH)
 I-4883 (3/4 LENGTH)



I-2089 (72 CHARACTER)
 I-2258 (3/4 AND SHORT)



I-1989



I-2576



BB-134



I-401 (90 CHARACTER)
 I-2126 (72 CHARACTER)
 I-3317 (UNIVERSAL)



I-114



I-374



I-375



D-145



I-7979



I-403



I-402 (90 CHARACTER)
 I-2127 (72 CHARACTER)
 I-3318 (UNIVERSAL)



G-142



I-4057



I-357



E-1020



I-986
 I-994 (UNIVERSAL)
 I-2091 (72 CHARACTER)



I-576



I-7400



I-2090 (72 CHARACTER)
 I-2144 (3/4 AND SHORT)



I-3254



I-2686



I-236 (4 29/32" LONG)
 I-237 (5 7/8" LONG)
 I-653 (2 1/16" LONG)



I-239



D-4455
 I-7977



D-401



D-4456



I-377



I-7978



I-444
 I-883



I-1991



I-241



I-242



I-363



I-7980



I-407
 I-705

Assembling Mechanism

Models 5-29-30-31-32

Magazine 83

86-134 Magazine intermediate bar dowel 1/8" x 3/8"	5-29-30-31-32	I- 883 Magazine dowel (72 character, 3/4 and short)	29-30
D- 145 Magazine end bar dowel 1/8" x 5/8"	5-29-30-31-32	I- 986 Magazine, english, marking plate	5-29-30-31-32
D- 401 Escapement cover dowel 1/8" x 7/18"	5-29-30-31-32	I- 994 Magazine, universal, marking plate	5-29-30-31-32
D-4455 Escapement cover screw 8-32 x 1/2"	5-29-30-31-32	I-1989 Magazine matrix channel guard strip clip	5-29-30-31-32
D-4456 Pi tube entrance guide screw 4-48 x 5/32"	5-29-30-31-32	I-1991 Magazine binding screw, special	5-29-30-31-32
E-1020 Magazine name plate holder rivet	5-29-30-31-32	I-2088 Magazine rail (72 character, short)	29-30
E-1020 Magazine marking plate rivet	5-29-30-31-32	I-2089 Magazine rail filling piece (72 character, short)	29-30
G- 142 Font card holder clip screw 8-48 x 5/32"	5-29-30-31-32	I-2090 Magazine name plate holder (72 character)	29-30
G- 274 Magazine pi guide screw 8-32 x 3/8"	5-29-30-31-32	I-2091 Magazine name plate (72 character)	29-30
G- 274 Magazine rail screw 8-32 x 3/8"	5-29-30-31-32	I-2126 Magazine intermediate bar (72 character)	29-30
G- 274 Magazine intermediate bar screw 8-32 x 3/8"	5-29-30-31-32	I-2127 Magazine end bar (72 character)	29-30
I- 114 Magazine matrix locking bar pin, l.h. 1/8" x 1/4"	5-29-30-31-32	I-2142 Magazine rail (90 character, short)	29-30-31-32
I- 236 Magazine partition 4 29/32" long	5-29-30-31-32	I-2144 Magazine name plate holder (3/4 and short)	29-30-31-32
I- 237 Magazine partition 3 7/8" long	5-29-30-31-32	I-2192 Magazine rail (72 character, full)	29-30
I- 239 Magazine partition 5 3/4" long	5-29-30-31-32	I-2258 Magazine rail filling piece (3/4 and short)	29-30-31-32
I- 241 Magazine binding screw 1 1/16" long (72 char., 3/4 and short)	29-30	I-2576 Magazine partition 2 15/16" long	5-29-30-31-32
I- 242 Magazine binding screw 1 3/16" long	5-29-30-31-32	I-2695 Magazine matrix locking strip latch, auxiliary, screw	5-29-30-31-32
I- 353 Pi tube entrance guide	29-30-31-32	I-3254 Magazine matrix locking bar pin, r.h.	5-29-30-31-32
I- 357 Font card holder clip	5-29-30-31-32	I-3317 Magazine intermediate bar (universal)	29-30-31-32
I- 374 Magazine matrix locking bar screw	5-29-30-31-32	I-3318 Magazine end bar (universal)	29-30-31-32
I- 375 Magazine matrix locking bar detent	5-29-30-31-32	I-4057 Font card holder clip screw 6-32 x 3/32" (72 character, short and 3/4)	29-30
I- 377 Magazine pi guide	29-30-31-32	I-4863 Magazine rail (3/4 length)	29-30-31-32
I- 399 Magazine rail (90 character, full length)	5-29-30-31-32	I-7400 Magazine name plate holder	5-29-30-31-32
I- 401 Magazine intermediate bar (90 character)	5-29-30-31-32	I-7977 Escapement cover screw (Phillips Round Head) 8-32 x 1/2"	5-29-30-31-32
I- 402 Magazine end bar (90 character)	5-29-30-31-32	I-7978 Magazine intermediate bar screw (Holo-Krome Socket Head) 8-32 x 3/8"	5-29-30-31-32
I- 403 Magazine end bar screw 8-32 x 5/16" (Holo-Krome Socket Head)	5-29-30-31-32	I-7978 Magazine rail screw (Holo-Krome Socket Head) 8-32 x 3/8"	5-29-30-31-32
I- 407 Magazine side bar screw 10-32 x 1 1/4"	5-29-30-31-32	I-7979 Magazine end bar screw 8-32 x 3/4"	5-29-30-31-32
I- 444 Magazine dowel 3/16" x 1 1/4"	5-29-30-31-32	I-7980 Magazine side bar screw 10-32 x 1 7/32" (Phillips Round Head)	6-29-30-31-32
I- 445 Magazine rail dowel 3/16" x 1/2"	5-29-30-31-32	I-7980 Magazine side bar screw, long 10-32 x 1 7/32" (Phillips Round Head)	29-30
I- 576 Magazine name plate	29-30-31-32		
I- 653 Magazine partition 2 11/16" long (72 character, short)	29-30		
I- 705 Magazine side bar screw, short 10-32 x 1 1/64" (72 character, short)	29-30		

Please Give Model and Serial Number When Ordering



J-1784



D-1867



I-4909



B-95



D-713



I-2495



D-84

J-2364 (72 CHARACTER)
J-2428 (90 CHARACTER)
J-3183 (UNIVERSAL)

H-353



I-4907

I-2493
(FRONT)

I-2492

J-2363 (72 CHARACTER)
J-2426 (90 CHARACTER)
J-3182 (UNIVERSAL)

I-2491

I-2494
(BACK)

I-2175



I-336 (90 CHARACTER)



I-299



I-2292 (L.H.)



I-1981



I-2283



I-114



I-2291 (R.H.)

Assembling Mechanism

Models 5-29-30-31-32

Magazine 85

B- 95 Magazine matrix locking strip latch, auxiliary, spring	5-29-30-31-32	I-2491 Magazine matrix locking strip stud	5-29-30-31-32
D- 84 Magazine matrix locking strip latch spring	5-29-30-31-32	I-2492 Magazine matrix locking strip detent	5-29-30-31-32
D- 713 Magazine matrix locking strip latch, auxiliary, spring screw 4-48 x 5/32"	5-29-30-31-32	I-2493 Magazine matrix locking strip guide, front	5-29-30-31-32
D-1867 Magazine matrix locking strip latch, auxiliary, retaining screw	5-29-30-31-32	I-2494 Magazine matrix locking strip guide, back	5-29-30-31-32
H- 353 Magazine matrix locking strip guide screw 8-32 x 3/8"	5-29-30-31-32	I-2495 Magazine matrix locking strip latch	5-29-30-31-32
I- 114 Magazine matrix locking bar end piece dowel	5-29-30-31-32	I-4907 Magazine matrix locking strip latch, auxiliary	5-29-30-31-32
I- 299 Magazine matrix channel guard strip pin, round	5-29-30-31-32	I-4909 Magazine matrix locking strip, assembled	5-29-30-31-32
I- 336 Magazine matrix channel guard strip, assembled	5-29-30-31-32	J-1784 Magazine matrix locking strip latch screw	5-29-30-31-32
I-1981 Magazine matrix locking bar end piece screw	5-29-30-31-32	J-2363 Escapement cover (72 character)	29-30
I-2176 Magazine matrix channel guard strip pin, flat	5-29-30-31-32	J-2364 Escapement cover, assembled (72 character)	29-30
I-2291 Magazine matrix locking bar end piece, r.h.	5-29-30-31-32	J-2428 Escapement cover (90 character)	5-29-30-31-32
I-2292 Magazine matrix locking bar end piece, l.h.	5-29-30-31-32	J-2429 Escapement cover, assembled (90 character)	5-29-30-31-32
I-2293 Magazine matrix locking bar, assembled	5-29-30-31-32	J-3182 Escapement cover (Universal)	29-30-31-32
		J-3183 Escapement cover, assembled (Universal)	29-30-31-32

Please Give Model and Serial Number When Ordering



A-112



D-1582



I-299

I-2106
I-4856

I-1989



I-2176



I-444



J-2018



H-3591

I-2101 (72 CHARACTER, SHORT)
I-2152 (90 CHARACTER, SHORT)
I-4862 (3/4 LENGTH)

I-6417



I-2108



I-407

D-321
I-883
D-950

J-1080



I-242



D-978

I-2107 (72 CHARACTER, SHORT)
I-2156 (90 CHARACTER, SHORT)
I-4855 (3/4 LENGTH)

G-274



I-445

I-3921 (90 CHARACTER, SHORT, LINDLITE) I-2105 (72 CHARACTER, SHORT, BRASS)
I-3926 (UNIVERSAL, SHORT, LINDLITE) I-2157 (90 CHARACTER, SHORT, BRASS)
I-4850 (90 CHARACTER, 3/4 LENGTH) I-3322 (UNIVERSAL, SHORT, LINDLITE)
I-4898 (72 CHARACTER, 3/4 LENGTH) I-3912 (72 CHARACTER, SHORT, LINDLITE)

I-5014 (UNIVERSAL, SHORT, LINDLITE)



I-336 (90 CHARACTER)

I-236 (4 29/32" LONG)
I-237 (5 7/8" LONG)
I-654 (3 7/16" LONG)
I-2102 (1 25/32" LONG)

I-7978



I-788

Assembling Mechanism

Models 29-30-31-32

Magazine Entrance and Supplies 87

A- 112 Magazine entrance matrix guard locating piece screw 8-32 x 3/8"	29-30-31-32	I-2106 Magazine entrance matrix guard hinge lug (short)	29-30-31-32
D- 321 Magazine entrance bar, first, dowel 1/8" x 1 1/8" (72 character, short)	29-30	I-2107 Magazine entrance matrix guard hinge rod (72 character, short)	29-30
D- 950 Magazine, short, entrance bar, first, dowel 3/16" x 1 3/8"	29-30	I-2108 Magazine entrance matrix guard locating piece	29-30-31-32
D- 950 Magazine entrance bar, first, dowel 3/16" x 1 3/8"	29-30	I-2152 Magazine entrance rail (short)	29-30-31-32
D- 978 Magazine, short, entrance side bar screw, short 10-32 x 3/4"	29-30	I-2156 Magazine entrance matrix guard hinge rod (short)	29-30-31-32
D- 978 Magazine entrance side bar screw, short 10-32 x 3/4"	29-30-31-32	I-2157 Magazine entrance matrix guard, assembled	29-30-31-32
D-1582 Magazine entrance matrix guard handle	29-30-31-32	I-2176 Magazine matrix channel guard strip pin, flat	29-30-31-32
G- 274 Magazine entrance rail screw 8-32 x 3/8"	29-30-31-32	I-3322 Magazine entrance matrix guard, assembled (brass, universal, short)	29-30-31-32
H-3591 Linolite magazine (3/4 length) entrance guide screw 1/4"-24 x 7/16"	29-30-31-32	I-3912 Magazine entrance matrix guard, assembled (linolite, 72 character, short)	29-30
I- 236 Magazine entrance partition (4 29/32" long) (short)	29-30-31-32	I-3921 Magazine entrance matrix guard, assembled (linolite, 90 character, short)	29-30-31-32
I- 237 Magazine entrance partition (5 7/8" long) (72 character, short)	29-30	I-3926 Magazine entrance matrix guard, assembled (linolite, universal, short)	Supplies
I- 242 Magazine entrance binding screw (1 3/16" long)	29-30-31-32	I-4850 Magazine entrance matrix guard, assembled (linolite, 90 character, 3/4 length)	29-30-31-32
I- 299 Magazine matrix channel guard strip pin, round 1/16" x 1"	29-30-31-32	I-4855 Magazine entrance matrix guard hinge rod (3/4 length)	29-30-31-32
I- 336 Magazine matrix channel guard strip, assembled	29-30-31-32	I-4856 Magazine entrance matrix guard hinge lug (3/4 length)	29-30-31-32
I- 407 Magazine entrance side bar screw, long 10-32 x 1 7/32"	29-30-31-32	I-4862 Magazine entrance rail (3/4 length)	29-30-31-32
I- 407 Magazine, short, entrance side bar screw, short	29-30	I-4898 Magazine entrance matrix guard, assembled (linolite, 72 character, 3/4 length)	29-30-31-32
I- 444 Magazine entrance dowel 3/16" x 1 1/4"	29-30-31-32	I-5014 Magazine entrance matrix guard, assembled (linolite, universal, 3/4 length)	29-30-31-32
I- 445 Magazine entrance rail dowel 3/16" x 1/2"	29-30-31-32	I-6417 Linolite magazine (3/4 length) entrance guide	29-30-31-32
I- 654 Magazine entrance partition 3 7/16" long	29-30-31-32	I-7978 Magazine entrance rail screw (holo-krome socket head)	29-30
I- 788 Magazine entrance matrix guard hinge rivet	29-30-31-32	J-1080 Magazine matrix galley, complete	29-30-31-32
I- 883 Magazine entrance bar, first, dowel 3/16" x 1 1/6"	29-30-31-32	J-2018 Magazine matrix galley hook	29-30-31-32
I-1989 Magazine matrix channel guard strip clip	29-30-31-32		
I-2101 Magazine entrance rail (72 character, short)	29-30		
I-2102 Magazine entrance partition 1 25/32" long	29-30-31-32		
I-2105 Magazine entrance matrix guard, assembled, brass (72 character, short)	29-30		

Please Give Model and Serial Number When Ordering



I-2765 (R.H.)



I-2763 (L.H.)

I-3354 (BRASS)
I-3913 (LINDLYTE)

I-2764 (L.H.)



I-2766 (L.H.)



G-274



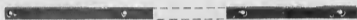
I-2768



A-112



I-2767

D-86 (A=9/32")
E-1569 (A=7/32")I-3344 (8 5/64" LONG)
I-3353 (12 7/16" LONG)
I-3626 (20 9/32" LONG)
I-6667 (9 15/32" LONG)I-874 (A=11/32")
J-640 (A=7/16")

I-3345

I-656 (4" LONG)
I-1453 (6 9/32" LONG)
I-3774 (5 1/4" LONG)I-256 (1" LONG)
I-498 (1 43/64" LONG)
I-696 (3/4" LONG)

D-1231



E-502



I-4051



I-357



I-6670



I-4057



G-956



D-868



I-706



I-883



I-6146



I-109



I-204

A- 112 Magazine, auxiliary, entrance matrix guard hinge support screw 8-32 x 3/8"	30-32	I- 874 Magazine, auxiliary, long rail dowel, short 3/16 x 11/32"	30
A- 112 Magazine, auxiliary, entrance matrix guard locating piece screw 8-32 x 3/8"	30-32	I- 883 Magazine, auxiliary, side bar dowel 3/16" x 1 1/8"	30-32
D- 86 Magazine, auxiliary, rail screw, short 8-32 x 9/32"	30-32	I- 883 Magazine, auxiliary, entrance side bar dowel 3/16" x 1 1/8"	30-32
D- 868 Magazine, auxiliary, side bar screw, short 10-32 x 7/8"	30-32	I-1453 Magazine, auxiliary, partition (8 9/32" long) (full length)	30
D-1231 Magazine, auxiliary, entrance bar, first, screw 10-32 x 5/8"	30-32	I-1453 Magazine, auxiliary, entrance partition (8 9/32" long)	30-32
E- 502 Magazine, auxiliary, entrance bar, first, screw 3/16" x 31/64"	30-32	I-2763 Magazine, auxiliary, entrance matrix guard hinge, r.h.	30-32
E-1589 Magazine, auxiliary, rail screw, long 8-32 x 11/32"	30-32	I-2764 Magazine, auxiliary, entrance matrix guard hinge, l.h.	30-32
E-1589 Magazine, auxiliary, long, rail screw, long 8-32 x 11/32"	30	I-2765 Magazine, auxiliary, entrance matrix guard hinge support, r.h.	30-32
E-1589 Magazine, auxiliary, rail screw 8-32 x 11/32"	30-32	I-2766 Magazine, auxiliary, entrance matrix guard hinge support, l.h.	30-32
E-1589 Magazine, auxiliary, entrance rail screw 8-32 x 11/32"	30-32	I-2767 Magazine, auxiliary, entrance matrix guard fulcrum screw	30-32
G- 274 Magazine, auxiliary, entrance matrix guard hinge screw 8-32 x 3/8"	30-32	I-2768 Magazine, auxiliary, entrance matrix guard locating piece	30-32
G- 956 Magazine, auxiliary, binding screw nut 5-40 x 1/4"	30-32	I-3344 Magazine, auxiliary, rail (short)	30-32
I- 109 Magazine, auxiliary, binding screw (1 1/16" long)	30-32	I-3345 Magazine, auxiliary, partition, front	30-32
I- 109 Magazine, auxiliary, entrance binding screw (1 1/16" long)	30-32	I-3353 Magazine, auxiliary, entrance rail	30-32
I- 204 Magazine, auxiliary, binding screw (1 1/64" long)	30-32	I-3354 Magazine, auxiliary, entrance matrix guard (brass)	30-32
I- 256 Magazine, auxiliary, partition (1" long)	30-32	I-3628 Magazine, auxiliary, rail (full length)	30
I- 357 Font card holder clip	30-32	I-3774 Magazine, auxiliary, partition (3 1/4" long) (full length)	30
I- 498 Magazine, auxiliary, entrance partition (1 45/64" long)	30-32	I-3774 Magazine, auxiliary, entrance partition (3 1/4" long)	30-32
I- 656 Magazine, auxiliary, partition (4" long)	30-32	I-3913 Linolite magazine, auxiliary, entrance matrix guard	30-32
I- 698 Magazine, auxiliary, partition (3/4" long)	30-32	I-4051 Font card holder clip, auxiliary	30-32
I- 705 Magazine, auxiliary, side bar screw 10-32 x 1 5/84"	30-32	I-4057 Font card holder clip, auxiliary, screw 8-32 x 3/32"	30-32
I- 705 Magazine, auxiliary, entrance side bar screw 10-32 x 1 5/84"	30-32	I-6146 Magazine, auxiliary (long) side bar screw 10-32 x 1 1/8"	30
I- 874 Magazine, auxiliary, rail dowel, short 3/16" x 11/32"	30-32	I-6667 Magazine, auxiliary, rail	30-32
		I-6670 Magazine, auxiliary, verge spring bar	30
		J- 640 Magazine, auxiliary, entrance rail dowel 3/16" x 7/16"	30-32
		J- 640 Magazine, auxiliary, rail dowel 3/16" x 7/16"	30-32

Please Give Model and Serial Number When Ordering



I-6668

I

G-2616



I-3583



I-5292



H-353



F-267



J-6095



I-5199



I-5198



I-3598



D-971



I-3582



I-3584



J-3316



D-177



I-3585



B-217



D-1152



I-4405



I-4506



I-5526



I-5527

J-3318 (BRASS)
J-3752 (LINOLITE)

J-3315



J-3317



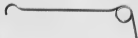
J-1314



J-3314



J-3319



J-1273



E-184



J-1378



J-5700



J-1554



J-2430



J-3308



H-156

Assembling Mechanism

Models 30-32

Magazine, Auxiliary 91

B- 217 Escapement, auxiliary, guard screw 8-32 x 1,4"	30-32	I-5199 Magazine, auxiliary, lock spring	30-32
D- 177 Magazine, auxiliary, matrix locking bar shoe guard screw 4-48 x 3/16"	30-32	I-5292 Magazine, auxiliary, lower, retaining latch stop pin	30
D- 177 Escapement, auxiliary, verge plunger bar screw 4-48 x 3/16"	30-32	I-5526 Magazine, auxiliary, matrix locking bar stud 5/16"-24 x 1 19/64"	30
D- 971 Magazine, auxiliary, stop screw 8-32 x 1,4"	30-32	I-5526 Magazine, auxiliary, matrix locking bar stud, lower	30
D-1152 Magazine, auxiliary, matrix locking bar spring	30-32	I-5527 Magazine, auxiliary, matrix locking bar stud lock nut	30
E- 184 Escapement, auxiliary, bar, second, dowel 3/16" x 1"	30-32	I-6668 Escapement verge, auxiliary, spring bar	30-32
E- 184 Escapement, auxiliary, bar, third, dowel 3/16" x 1"	30-32	J-1273 Escapement, auxiliary, verge spring	30-32
F- 267 Magazine, auxiliary, lock spring screw 6-48 x 3/16"	30-32	J-1314 Escapement, auxiliary, pawl	30-32
G-2616 Magazine, auxiliary, matrix locking bar shoe rivet	30-32	J-1318 Escapement, auxiliary, verge plunger	30-32
H- 156 Escapement, auxiliary, verge partition rack pin 1/16" x 17,32"	30-32	J-1554 Escapement, auxiliary, verge	30-32
H- 353 Escapement verge plunger, auxiliary, push rod guard strip screw 8-32 x 3/8"	30	J-2430 Escapement, auxiliary, verge partition	30-32
I-3582 Magazine, auxiliary, matrix locking bar shoe	30-32	J-3308 Escapement, auxiliary, bar, first screw 10-32 x 1 1/8"	30-32
I-3583 Magazine, auxiliary, matrix locking bar, assembled	30-32	J-3308 Escapement, auxiliary, bar, second screw 10-32 x 1 1/8"	30-32
I-3584 Magazine, auxiliary, matrix locking bar screw	30-32	J-3314 Escapement, auxiliary, verge partition locking rod	30-32
I-3585 Magazine, auxiliary, matrix locking bar shoe guard	30-32	J-3315 Escapement, auxiliary, verge hinge rod	30-32
I-3598 Magazine, auxiliary, stop	30-32	J-3316 Escapement, auxiliary, guard	30-32
I-4405 Magazine, auxiliary, matrix locking bar stud 5/16"-24 x 1 3/4"	32	J-3317 Escapement, auxiliary, verge plunger bar	30-32
I-4506 Magazine, auxiliary, matrix locking bar stud lock nut 5/16"-24 x 1,2"	32	J-3318 Escapement, auxiliary, cover (Brass)	30-32
I-5198 Magazine, auxiliary, lock, assembled	30-32	J-3319 Escapement, auxiliary, cover spacer	30-32
		J-3752 Escapement, auxiliary, cover (Linolite)	30-32
		J-5700 Escapement, auxiliary, verge plunger	30-32
		J-6095 Escapement verge plunger, auxiliary, push rod guard strip	30

Please Give Model and Serial Number When Ordering



F-6155 E-2052



I-447 (90 CHAR)



I-5859 (CENTER)



I-7959 (90 CHAR)



J-5854 (LOWER)



I-7960 (72 CHAR)



D-398 I-5860



I-6070



I-5852 (90 CHAR)
I-6063 (72 CHAR)



J-5826
(LOWER) (L.H.)



I-5856 (CENTER)
I-5857 (OUTER)



I-4033 A = 16 3/16"
I-8060 A = 1/8"



I-3624



D-218



A-112



I-5858



J-4709



D-846



I-3621 (R.H.)



D-330



D-905



I-3622 (L.H.)

Assembling Mechanism

Models 5-29-30-31-32

Magazine Frame 93

A- 112 Magazine, upper, locking latch bracket screw 8-32 x 3/8"	5-29-30-31-32	I-3622 Magazine, lower, intermediate and upper, locking latch, l.h.	29-30-31-32
A- 112 Magazine, lower, intermediate and upper, locking latch bracket screw	29-30-31-32	I-3622 Magazine, locking latch, l.h.	5
A- 112 Magazine locking latch bracket screw	5	I-3624 Magazine, upper, locking latch bracket	5-29-30-31-32
D- 218 Magazine, upper, locking latch bracket dowel 1/8" x 1/2"	5-29-30-31-32	I-3624 Magazine, lower, intermediate and upper, locking latch bracket	29-30-31-32
D- 218 Magazine, lower, intermediate and upper, locking latch bracket dowel	5-29-30-31-32	I-4033 Magazine entrance support screw 1/4"-24 x 1/4"	5-29-30-31-32
D- 218 Magazine locking latch bracket dowel	5	I-5852 Magazine frame matrix guard, assembled (90 character)	29-30-31-32
D- 330 Magazine, upper, locking latch pin 1/8" x 15/16"	5-29-30-31-32	I-5854 Magazine frame matrix guard hinge, upper section, outer	29-30-31-32
D- 330 Magazine, lower, intermediate and upper, locking latch pin	5	I-5856 Magazine frame matrix guard hinge pin (center)	29-30-31-32
D- 330 Magazine locking latch pin	5	I-5857 Magazine frame matrix guard hinge pin (outer)	29-30-31-32
D- 398 Magazine frame matrix guard hinge rivet, lower section	29-30	I-5858 Magazine frame matrix guard hinge spring	29-30-31-32
D- 398 Magazine frame matrix guard hinge rivet, upper section	29-30	I-5859 Magazine frame matrix guard hinge, upper section, center	29-30-31-32
D- 398 Magazine frame matrix guard hinge rivet, upper and lower section	31-32	I-5860 Magazine frame matrix guard hinge, lower section	29-30-31-32
D- 846 Magazine locating piece screw 8-48 x 5/16"	29-30-31-32	I-5878 Magazine frame matrix guard, upper section, assembled	29-30-31-32
D- 905 Magazine, upper, locking latch spring	5-29-30-31-32	I-5879 Magazine frame matrix guard, lower section, assembled (90 character)	29-30-31-32
D- 905 Magazine, lower, intermediate and upper, locking latch spring	29-30-31-32	I-6062 Magazine frame matrix guard, lower section, assembled (72 character)	29-30
D- 905 Magazine locking latch spring	5	I-6063 Magazine frame matrix guard, assembled (72 character)	29-30
E-2062 Magazine scale screw 4-48 x 13/64"	5-29-30-31-32	I-6070 Magazine frame setting gauge	29-30-31-32
F-6155 Magazine scale screw	5-29-30-31-32	I-7959 Magazine scale (90 character)	5-29-30-31-32
I- 447 Magazine scale	5-29-30-31-32	I-7960 Magazine scale (72 character)	5-29-30
I-3621 Magazine, upper, locking latch, r.h.	5-29-30-31-32	I-8050 Magazine entrance support screw	29-30-31-32
I-3621 Magazine, lower, intermediate and upper, locking latch, r.h.	29-30-31-32	J-4709 Escapement screw, lower	29-30
I-3621 Magazine locking latch, r.h.	5	J-4709 Escapement screw, intermediate	29-30-31-32
I-3622 Magazine, upper, locking latch, l.h.	5-29-30-31-32	J-4709 Escapement screw, lower, r.h.	31-32
		J-5526 Escapement screw, lower, l.h.	31-32

Please Give Model and Serial Number When Ordering



I-5874 (LOWER) (L.H.)



88-134



D-979



I-5873 (LOWER) (R.H.)



I-5876 (UPPER) (L.H.)



I-5875 (UPPER) (R.H.)



I-5026



H-177



I-3294



G-1173



I-5687



I-5027



I-2684



J-463



E-943



G-739



I-3878



I-5036



I-5877



I-5207



H-192



I-7860



I-440

Assembling Mechanism

Models 5-29-30-31-32

Magazine Frame 95

BB-134 Magazine, lower, frame banking shoe, upper, r.h. and l.h., dowel 1/8" x 3/8"	31-32	I-5026 Magazine frame locating pin	5
D- 979 Magazine, lower, frame banking shoe, upper, r.h. and l.h., screw 10-32 x 3/8"	31-32	I-5027 Magazine frame, intermediate, banking stud	31-32
D- 979 Magazine, lower, frame banking shoe, lower, screw	31-32	I-5027 Magazine frame, upper, banking stud	29-30-31-32
E- 943 Magazine frame, intermediate, horizontal adjusting screw set screw shoe	29-30-31-32	I-5027 Magazine frame, intermediate and upper, banking stud	29-30-31-32
E- 943 Magazine frame, upper, horizontal adjusting screw set screw shoe	29-30-31-32	I-5027 Magazine frame banking stud	5
E- 943 Magazine frame, horizontal adjusting screw set screw shoe	5	I-5036 Magazine frame, intermediate, adjusting banking stud	29-30
G- 739 Magazine frame, intermediate, horizontal adjusting screw set screw 8-32 x 3/16"	29-30-31-32	I-5036 Magazine frame, intermediate, adjusting banking stud, r.h.	31-32
G- 739 Magazine frame, horizontal, adjusting screw set screw	5	I-5036 Magazine frame, intermediate, adjusting banking stud, l.h.	31-32
G-1173 Channel entrance locating block screw 8-32 x 1/2"	29-30-31-32	I-5036 Magazine frame, upper, adjusting banking stud	29-30-31-32
H- 177 Magazine frame, intermediate, locating pin set screw 8-32 x 1/4"	29-30-31-32	I-5207 Magazine frame, intermediate, adjusting banking stud lock nut 1/4"-24 x 3/8"	29-30
H- 177 Magazine frame locating pin set screw	5	I-5207 Magazine frame, intermediate, adjusting banking stud, r.h., lock nut	31-32
H- 177 Magazine frame, upper, locating pin set screw	29-30-31-32	I-5207 Magazine frame, intermediate, adjusting banking stud, l.h., lock nut	31-32
H- 192 Magazine locating piece dowel 3/32" x 5/16"	29-30-31-32	I-5207 Magazine frame, upper, adjusting banking stud lock nut	29-30-31-32
I- 440 Magazine locating piece	29-30-31-32	I-5687 Magazine frame, intermediate, banking stud	29-30
I-2684 Magazine frame, upper and intermediate, adjusting screw	29-30-31-32	I-5687 Magazine frame, upper, banking stud	29-30
I-2684 Magazine frame adjusting screw	5	I-5873 Magazine frame, lower, banking shoe, lower, r.h.	29-30-31-32
I-3294 Channel entrance locating block	29-30-31-32	I-5874 Magazine frame, lower, banking shoe, lower, l.h.	31-32
I-3878 Magazine frame, intermediate, horizontal, adjusting screw	29-30-31-32	I-5875 Magazine, lower, frame banking shoe, upper, r.h.	31-32
I-3878 Magazine frame, upper, horizontal, adjusting screw	29-30-31-32	I-5876 Magazine, lower, frame banking shoe, upper, l.h.	31-32
I-3878 Magazine frame, horizontal, adjusting screw	5	I-5877 Magazine frame, intermediate, adjusting banking stud, l.h., nut washer	31-32
I-5026 Magazine frame, intermediate, locating pin	29-30-31-32	I-7860 Magazine frame locating pin	5
I-5026 Magazine frame, upper, locating pin	29-30-31-32	J- 463 Magazine frame, intermediate and upper, adjusting screw nut 1/4"-24 x 3/8"	29-30-31-32
		J- 463 Magazine frame adjusting screw nut	5

Please Give Model and Serial Number When Ordering



I-1028



I-5842



E-145



I-3296

I-3299



H-457



F-689



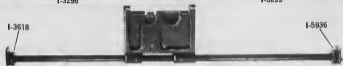
H-518



I-5896 (L.H.)



I-3619 (L.H.)



I-3618

I-5939

I-5936



I-3292

I-5894



I-3618 (R.H.)



I-6069



I-5895 (L.H.)



I-3236



I-3202 (R.H.)

I-5896

I-3291

I-5895



I-3202 (R.H.)



I-3231



I-3218



E-527



I-5683



D-3141

I-1701 (29 30)
I-5375 (31 32)

G-119



I-5681



H-353

I-5502 (L.H.) (29 30)
I-5845 (L.H.) (31 32)I-5501 (R.H.) (29 30)
I-5844 (R.H.) (31 32)

I-3197



I-5846



I-5838 (L.H.)



A-118



I-3223



H-387



I-5837 (R.H.)



I-3198

I-5511 (R.H.) (29 30)
I-5512 (L.H.) (29 30)

I-5682



I-6728



I-5684



I-1079

I-5892 (R.H.) (31 32)
I-5893 (L.H.) (31 32)

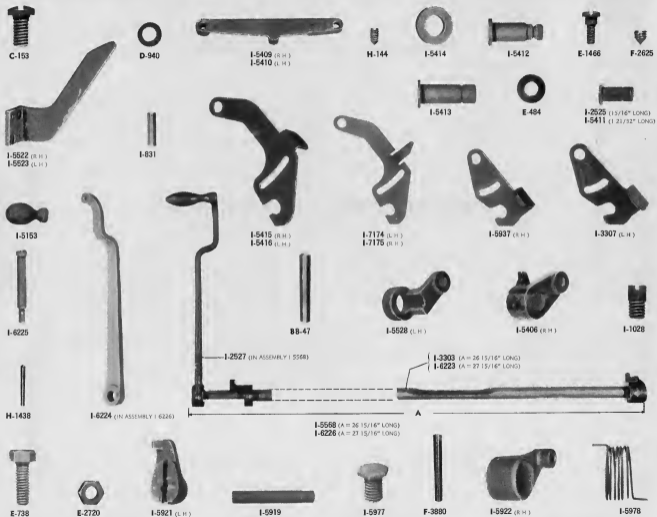
Assembling Mechanism

Models 5-29-30-31-32

Magazine Frame 97

A- 118 Magazine frame, lower, guide dowel 1/4" x 7/8"	29-30	I-3618 Magazine, lower, intermediate and upper, lifting bar cam shaft stop collar, r.h.	29-30-31-32
A- 118 Magazine frame guide dowel 1/4" x 7/8"	31-32	I-3619 Magazine, upper, lifting bar cam shaft stop collar, l.h.	29-30
D-3141 Magazine frame, lower, guide, r.h., gib screw 8-32 x 3/16"	29-30	I-5375 Magazine frame guide key	31-32
D-3141 Magazine frame, lower, guide, l.h., gib screw 8-32 x 3/16"	29-30	I-5501 Magazine frame, lower, guide, r.h., gib	29-30
E- 145 Magazine lifting bar hinge pin screw 14-24 x 1/2"	5-29-30-31-32	I-5502 Magazine frame, lower, guide, l.h., gib	29-30
E- 527 Magazine lifting bar cam stop screw 8-32 x 1/2"	5-29-30-31-32	I-9511 Magazine frame, lower, guide, r.h.	29-30
F- 669 Magazine frame, lower, guide rail screw, lower	29-30-31-32	I-5512 Magazine frame, lower, guide, l.h.	29-30
G- 119 Magazine elevating piece spring screw 8-48 x 1/4"	5-29-30-31-32	I-5681 Magazine frame guide adjusting block	31-32
H- 353 Magazine frame, lower, guide, r.h., gib screw 8-32 x 3/8"	31-32	I-5681 Magazine frame, lower, guide adjusting block	29-30
H- 353 Magazine frame, lower, guide, l.h., gib screw	31-32	I-5682 Magazine frame, lower, guide adjusting pin, long	29-30
H- 387 Magazine lifting bar cam shaft stop collar, r.h., pin 3/16" x 7/8"	5-29-30-31-32	I-5683 Magazine frame, lower, guide adjusting screw	29-30
H- 387 Magazine lifting bar cam shaft stop collar, l.h., pin	5-29-30-31-32	I-5683 Magazine frame guide adjusting screw	31-32
H- 457 Magazine frame, lower, guide rail screw, lower, washer	29-30-31-32	I-5684 Magazine frame, lower, guide adjusting pin, short	29-30
H- 518 Magazine frame, lower, guide screw 5/16"-18 x 3/4"	29-30	I-5837 Magazine frame, lower, guide rail, r.h.	29-30
H- 518 Magazine frame guide screw 5/16"-18 x 3/4"	31-32	I-5838 Magazine frame, lower, guide rail, l.h.	29-30
I-1028 Magazine frame, lower, r.h., stop stud	29-30-31-32	I-5842 Magazine frame, lower, guide rail screw, upper	29-30-31-32
I-1079 Magazine frame guide dowel	29-30-31-32	I-5844 Magazine frame guide, r.h., gib	31-32
I-1701 Magazine frame, lower, guide key	29-30	I-5845 Magazine frame guide, l.h., gib	31-32
I-3197 Magazine lifting cam magazine stop	5-29-30-31-32	I-5846 Magazine frame guide adjusting pin	31-32
I-3198 Magazine lifting bar hinge pin	5-29-30-31-32	I-5892 Magazine frame guide, r.h.	31-32
I-3202 Magazine, lower and intermediate, lifting bar cam shaft stop collar, r.h.	29-30-31-32	I-5893 Magazine frame guide, l.h.	31-32
I-3218 Magazine lifting cam magazine stop screw	5-29-30-31-32	I-5894 Magazine lifting bar cam shaft	5-29-30-31-32
I-3223 Magazine lifting bar cam pin	5-29-30	I-5895 Magazine, lower and intermediate, lifting bar cam shaft stop collar, l.h.	29-30-31-32
I-3231 Magazine elevating piece spring	5-29-30-31-32	I-5896 Magazine, lower and intermediate, lifting bar cam shaft, assembled	5-29-30-31-32
I-3236 Magazine, lower and intermediate, lifting bar cam shaft stop collar, l.h.	29-30	I-5936 Magazine, upper, lifting bar cam shaft stop collar, l.h.	31-32
I-3291 Magazine lifting bar cam	5-29-30-31-32	I-5936 Magazine lifting bar cam shaft stop collar, l.h.	5
I-3292 Magazine lifting bar cam shaft	29-30	I-5936 Magazine, lower, intermediate and upper, lifting bar cam shaft stop collar, l.h.	29-30
I-3296 Magazine, lower, lifting bar	29-30-31-32	I-5939 Magazine, upper, lifting bar cam shaft, assembled	31-32
I-3299 Magazine, intermediate and upper, lifting bar	29-30-31-32	I-5939 Magazine, lower, intermediate and upper, lifting bar cam shaft, assembled	29-30
I-3299 Magazine lifting bar	5	I-5939 Magazine lifting bar cam shaft, assembled	5
I-3618 Magazine, upper, lifting bar cam shaft stop collar, r.h.	5-29-30-31-32	I-6069 Magazine lifting bar cam banking stud	31-32
		I-6728 Magazine frame, lower, adjusting screw bank	29-30-31-32

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 29-30

Magazine Frame (Separating) 99

BB- 47 Magazine frame, lower, shaft lever, r.h., pin 1/4" x 1 3/8"	29-30	I-5153 Magazine frame elevating handle knob	29-30
BB- 47 Magazine frame elevating handle pin 1/4" x 1 3/8"	29-30	I-5406 Magazine frame, lower, shaft lever, r.h.	29-30
BB- 47 Magazine frame, lower, shaft lever, l.h., pin 1/4" x 1 3/8"	29-30	I-5409 Magazine frame, upper, elevating link, long, r.h.	29-30
C- 153 Magazine elevating link, short, safety bracket		I-5410 Magazine frame, upper, elevating link, long, l.h.	29-30
screw 3/16"-16 x 21/32"	29-30	I-5411 Magazine frame, upper, elevating link, short, stud 1 21/32" long	29-30
D- 940 Magazine frame, upper, elevating link friction washer	29-30	I-5412 Magazine frame, upper, elevating link, long, stud	29-30
E- 484 Magazine frame separating link, short and intermediate retaining screw washer	29-30	I-5413 Magazine frame, second elevating link stud 1 7/32" long	29-30
E- 738 Magazine lifting bar cam shaft operating lever, l.h., stop screw 5/16"-18 x 7/8"	29-30	I-5414 Magazine frame elevating link spacer	29-30
E-1466 Magazine frame, upper, elevating link, short, clamping screw	29-30	I-5415 Magazine frame, upper, elevating link, short, r.h.	29-30
E-2720 Magazine lifting bar cam shaft operating lever, l.h., stop screw nut 5/16"-18 x 1/8"	29-30	I-5415 Magazine frame separating link, intermediate, r.h.	29-30
F-2625 Magazine frame intermediate elevating link stud set screw 1/4"-24 x 1/4"	29-30	I-5416 Magazine frame, upper, elevating link, short, l.h.	29-30
F-2625 Magazine frame, upper, elevating link, short, stud set screw 1/4"-24 x 1/4"	29-30	I-5416 Magazine frame separating link, intermediate, l.h.	29-30
F-3880 Magazine lifting bar cam shaft operating lever, r.h., pin	29-30	I-5522 Magazine elevating link, short, safety bracket, r.h.	29-30
H- 144 Magazine frame, upper, elevating link, long, stud set screw 8-32 x 5/16"	29-30	I-5523 Magazine elevating link, short, safety bracket, l.h.	29-30
H-1438 Magazine frame elevating handle knob stud pin	29-30	I-5528 Magazine frame, lower, shaft lever, l.h.	29-30
I- 831 Magazine elevating link, short, safety bracket dowel 3/16" x 11/16"	29-30	I-5568 Magazine frame, lower, shaft, assembled	29-30
I-102B Magazine frame, lower, shaft lever, r.h., stop stud 3/8"-16 x 11/16"	29-30	I-5919 Magazine lifting bar cam shaft operating lever shaft	29-30
I-2525 Magazine frame, intermediate, elevating link stud 15/16" long	29-30	I-5921 Magazine lifting bar cam shaft operating lever, l.h.	29-30
I-2527 Magazine frame elevating handle	29-30	I-5922 Magazine lifting bar cam shaft operating lever, r.h.	29-30
I-3303 Magazine frame, lower, shaft	29-30	I-5937 Magazine frame separating link, short, r.h.	29-30
I-3306 Magazine frame, upper, elevating link, short, r.h.	29-30	I-5977 Magazine lifting bar cam shaft operating lever, l.h., stop screw 1/2"-12 x 13/16"	29-30
I-3307 Magazine frame, upper, elevating link, short, l.h.	29-30	I-5978 Magazine lifting bar cam shaft operating lever, l.h., spring	29-30
		I-6223 Magazine frame, lower, shaft	29-30
		I-6224 Magazine frame elevating handle	29-30
		I-6225 Magazine frame elevating handle knob stud	29-30
		I-6226 Magazine frame, lower, shaft, assembled	29-30
		I-7174 Magazine frame separating link, intermediate, l.h.	29-30
		I-7175 Magazine frame separating link, intermediate, r.h.	29-30

Please Give Model and Serial Number When Ordering



I-5914 (L.H.)



I-5913



E-503



G-274



D-336



I-5915



I-7549 (L.H.)



I-7460



I-5923



I-5918



I-5193 (L.H.)



F-850



I-6215



I-5301



I-6216



I-5904 (L.H.)

I-3659 (R.H.)
I-3671 (L.H.)

I-5903 (R.H.)



I-5911



G-3398



I-5910



D-3042



I-5906



I-3214



BB-148



I-3667



I-5905



I-6014



G-346



I-2695



G-939



D-3615



J-463



B-85



I-3314



I-6013



I-6011



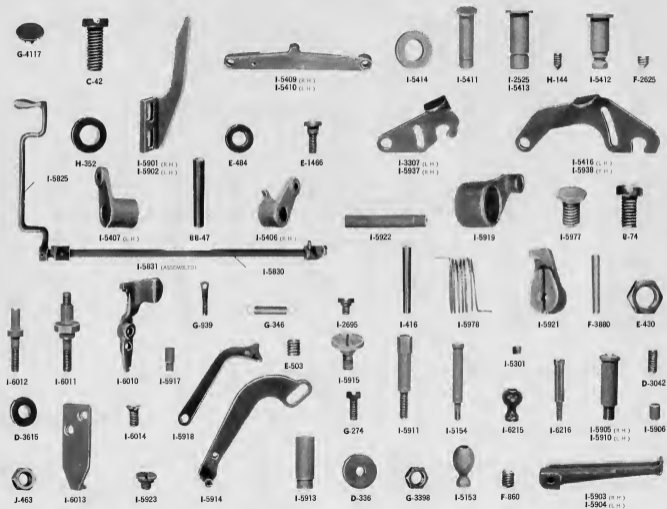
I-6012



I-6010

B- 85	Magazine supporting arm bracket screw 3/8"-18 x 3/4"	29-30	I-5905	Magazine supporting arm, r.h., fulcrum stud	29-30
BB-148	Magazine supporting arm, r.h., detent screw 8-32 x 5/16"	29-30	I-5906	Magazine supporting arm fulcrum stud set screw shoe	29-30
BB-148	Magazine supporting arm, l.h., detent screw 8-32 x 5/16"	29-30	I-5910	Magazine supporting arm, l.h., fulcrum stud	29-30
D- 336	Magazine supporting arm, l.h., connecting link pin washer	29-30	I-5911	Magazine supporting arm, l.h., stop	29-30
D-3042	Magazine supporting arm fulcrum stud set screw	29-30	I-5913	Magazine supporting arm, l.h., connecting link stud	29-30
D-3615	Magazine supporting arm, l.h., safety latch retaining washer	29-30	I-5914	Magazine supporting arm, l.h., connecting link and stud, assembled	29-30
E- 503	Magazine supporting arm, l.h., connecting link stud lock screw	29-30	I-5915	Magazine supporting arm, l.h., connecting link screw	29-30
F- 860	Magazine supporting arm handle stud set screw, l.h.	29-30	I-5918	Magazine supporting arm, l.h., connecting link latch, assembled	29-30
G- 274	Magazine supporting arm, l.h., connecting link washer screw	29-30	I-5923	Magazine supporting arm, l.h., connecting link latch screw	29-30
G- 346	Magazine supporting arm, l.h., safety latch spring	29-30	I-6010	Magazine supporting arm, l.h., safety latch	29-30
G- 939	Magazine supporting arm, l.h., safety latch spring eye	29-30	I-6011	Magazine supporting arm, l.h., safety latch stud	29-30
G-3398	Magazine supporting arm, l.h., stop lock nut	29-30	I-6012	Magazine supporting arm, l.h., safety latch stop	29-30
I-2695	Magazine supporting arm, l.h., safety latch spring stud	29-30	I-6013	Magazine supporting arm, l.h., safety latch finger	29-30
I-3214	Magazine supporting arm pin	29-30	I-6014	Magazine supporting arm, l.h., safety latch finger screw	29-30
I-3314	Magazine frame supporting arm bracket	29-30	I-6215	Magazine supporting arm, r.h., handle	29-30
I-3667	Magazine supporting arm, r.h., detent	29-30	I-6216	Magazine supporting arm, r.h., handle stud	29-30
I-3667	Magazine supporting arm, l.h., detent	29-30	I-7460	Magazine supporting arm, l.h., connecting link stud	29-30
I-3669	Magazine supporting arm, r.h., assembled	29-30	I-7549	Magazine supporting arm, l.h., connecting link and stud, assembled	29-30
I-3671	Magazine supporting arm, l.h., assembled	29-30	J- 463	Magazine supporting arm, l.h., safety latch retaining washer nut	29-30
I-5153	Magazine supporting arm, l.h., handle	29-30			
I-5301	Magazine supporting arm handle stud set screw, r.h.	29-30			
I-5903	Magazine supporting arm, r.h.	29-30			
I-5904	Magazine supporting arm, l.h.	29-30			

Please Give Model and Serial Number When Ordering



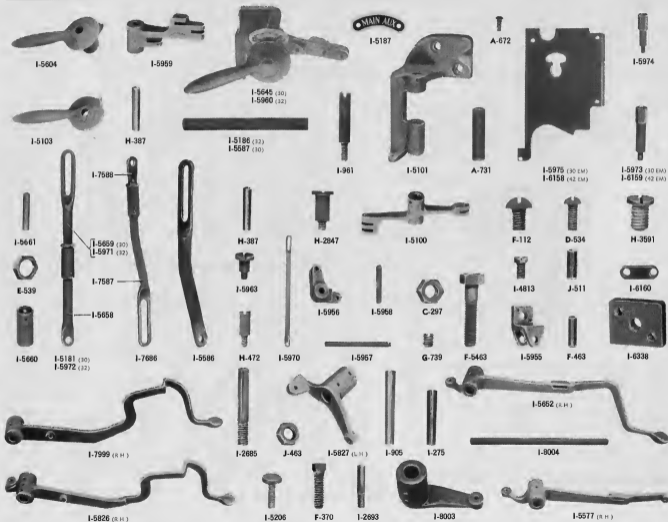
Assembling Mechanism

Models 5-31-32

Magazine Frame (Separating) 103

B- 74 Magazine frame separating link, intermediate, l.h.	31-32	I-5407 Magazine frame elevating shaft lever, l.h.	31-32
BB- 47 Magazine frame elevating shaft lever, r.h., pin 1/4" x 1 3/8"	31-32	I-5409 Magazine frame separating link, long, r.h.	31-32
BB- 47 Magazine frame elevating handle pin 1/4" x 1 3/8"	31-32	I-5410 Magazine frame separating link, long, l.h.	31-32
BB- 47 Magazine frame elevating shaft lever, l.h., pin 1/4" x 1 3/8"	31-32	I-5411 Magazine frame separating link, long, stud, upper 1 21/32" long	31-32
C- 42 Magazine separating link, short, safety bracket screw 3/8"-18 x 7/8"	31-32	I-5412 Magazine frame separating link, long, stud, lower	31-32
D- 336 Magazine supporting arm, l.h., connecting link pin washer	5-31-32	I-5413 Magazine frame separating link, short, stud 1 7/32" long	31-32
D-3042 Magazine supporting arm fulcrum stud set screw 10-32 x 7/16"	5-31-32	I-5414 Magazine frame separating link spacer	31-32
D-3615 Magazine supporting arm, l.h., safety latch retaining washer	5-31-32	I-5416 Magazine frame separating link, intermediate, l.h.	31-32
E- 430 Magazine lifting bar cam shaft operating lever, l.h., stop screw nut	5-31-32	I-5825 Magazine frame elevating handle	31-32
E- 484 Magazine frame separating link, short and intermediate retaining screw washer	31-32	I-5830 Magazine frame elevating shaft	31-32
E- 503 Magazine supporting arm, l.h., connecting link stud lock screw	5-31-32	I-5831 Magazine frame elevating handle and shaft, assembled	31-32
E-1466 Magazine frame separating link, short and intermediate, retaining screw	31-32	I-5901 Magazine separating link, short, safety bracket, r.h.	31-32
F- 860 Magazine supporting arm handle stud set screw 1/4"-24 x 5/18"	5-31-32	I-5902 Magazine separating link, short, safety bracket, l.h.	31-32
F-2625 Magazine frame separating link stud, upper and intermediate, set screw 1/4"-24 x 1/4"	31-32	I-5903 Magazine supporting arm, r.h.	5-31-32
F-3880 Magazine lifting bar cam shaft operating lever, r.h., pin 3/16" x 1 3/8"	5-31-32	I-5904 Magazine supporting arm, l.h.	5-31-32
G- 274 Magazine supporting arm, l.h., connecting link pin washer screw 8-32 x 3/8"	5-31-32	I-5905 Magazine supporting arm, r.h., fulcrum stud	5-31-32
G- 346 Magazine supporting arm, l.h., safety latch spring	31-32	I-5906 Magazine supporting arm fulcrum stud set screw shoe	5-31-32
G- 939 Magazine supporting arm, l.h., safety latch spring eye	31-32	I-5910 Magazine supporting arm, l.h., fulcrum stud	5-31-32
G-3398 Magazine supporting arm, l.h., stop lock nut 1/4"-24 x 3/8"	5-31-32	I-5911 Magazine supporting arm, l.h., stop	5-31-32
G-4117 Magazine separating link safety bracket screw hole cover	5	I-5913 Magazine supporting arm, l.h., connecting link stud	5-31-32
G-4117 Magazine frame lug hole cover	5	I-5914 Magazine supporting arm, l.h., connecting link and stud, assembled	5-31-32
H- 144 Magazine frame separating link stud, lower, set screw	31-32	I-5915 Magazine supporting arm, l.h., connecting link screw	5-31-32
H- 352 Magazine separating link, short, safety bracket screw washer	31-32	I-5917 Magazine supporting arm, l.h., connecting link latch stop pin	31-32
I- 416 Magazine lifting bar cam shaft operating lever, l.h., pin 1/4" x 2"	5-31-32	I-5918 Magazine supporting arm, l.h., connecting link latch, assembled	5-31-32
I-2525 Magazine frame separating link, intermediate, stud, lower 15/16" long	31-32	I-5919 Magazine lifting bar cam shaft operating lever shaft	5-31-32
I-2695 Magazine supporting arm, l.h., safety latch spring stud	31-32	I-5921 Magazine lifting bar cam shaft operating lever, r.h.	5-31-32
I-3307 Magazine frame separating link, short, l.h.	31-32	I-5922 Magazine lifting bar cam shaft operating lever, l.h.	5-31-32
I-5153 Magazine supporting arm, r.h., handle	31-32	I-5923 Magazine supporting arm, l.h., connecting link latch screw	5-31-32
I-5153 Magazine supporting arm, l.h., handle	5-31-32	I-5937 Magazine frame separating link, short, r.h.	5-31-32
I-5154 Magazine supporting arm, r.h., handle stud	31-32	I-5938 Magazine frame separating link, intermediate, r.h.	31-32
I-5154 Magazine supporting arm, l.h., handle stud	5-31-32	I-5977 Magazine lifting bar cam shaft operating lever, l.h., stop screw	5-31-32
I-5301 Magazine supporting arm handle stud set screw	5-31-32	I-5978 Magazine lifting bar cam shaft operating lever, l.h., spring	5-31-32
I-5406 Magazine frame elevating shaft lever, r.h.	31-32	I-6010 Magazine supporting arm, l.h., safety latch	31-32
		I-6011 Magazine supporting arm, l.h., safety latch stud	31-32
		I-6012 Magazine supporting arm, l.h., safety latch stop	31-32
		I-6013 Magazine supporting arm, l.h., safety latch finger	31-32
		I-6014 Magazine supporting arm, l.h., safety latch finger screw	31-32
		I-6215 Magazine supporting arm, r.h., handle	5-31-32
		I-6216 Magazine supporting arm, r.h., handle stud	5-31-32
		J- 463 Magazine supporting arm, l.h., safety latch retaining washer nut	31-32

Please Give Model and Serial Number When Ordering



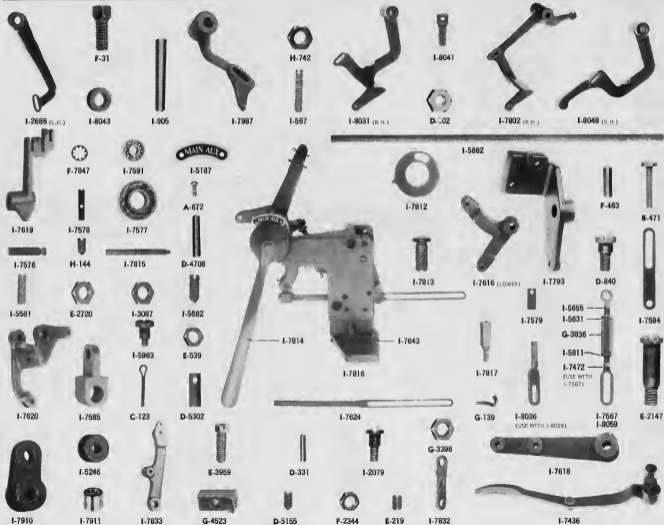
Assembling Mechanism

Models 29-30-31-32

Automatic Matrix Guard Levers 105

A- 672	Automatic matrix guard lever link lever operating handle direction plate rivet	30	32	I- 5652	Automatic matrix guard lever, r.h.	29
A- 731	Automatic matrix guard lever link lever bracket dowel	30	32	I- 5658	Automatic matrix guard, auxiliary, lever link, r.h., lower section	30
C- 297	Automatic matrix guard operating lever bracket screw nut 5/16"-18 x 1/4"		32	I- 5658	Automatic matrix guard, auxiliary, lever link, lower section	32
D- 534	Automatic matrix guard lever link lever bracket cover screw, short 10-32 x 7/16"		32	I- 5659	Automatic matrix guard, auxiliary, lever link, r.h., upper section	30
E- 539	Automatic matrix guard, auxiliary, lever link, intermediate section, lock nut 3/8"-32 x 1/8"	30	32	I- 5660	Automatic matrix guard, auxiliary, lever link, intermediate section	32
F- 112	Automatic matrix guard lever link lever bracket cover screw, large 14-24 x 3/8"	32	32	I- 5660	Automatic matrix guard, auxiliary, lever link, r.h., intermediate section	30
F- 370	Automatic matrix guard lever screw 1/4"-20 x 3/4"		31	I- 5661	Automatic matrix guard, auxiliary, lever link, intermediate section, pin	30
F- 463	Automatic matrix guard operating lever bracket spacer dowel		32	I- 5826	Automatic matrix guard lever, r.h.	31
F-5463	Automatic matrix guard operating lever bracket screw 5/16"-18 x 1 3/8"		32	I- 5827	Automatic matrix guard lever, l.h.	31
G- 739	Automatic matrix guard operating lever set screw 8-32 x 3/16"		32	I- 5955	Automatic matrix guard operating lever bracket	32
H- 387	Automatic matrix guard lever link lever operating handle pin	30	32	I- 5956	Automatic matrix guard operating lever	32
H- 387	Automatic matrix guard lever link lever pin	30	32	I- 5957	Automatic matrix guard operating lever shaft	32
H- 472	Automatic matrix guard operating lever stud, lower		32	I- 5958	Automatic matrix guard operating lever pin	32
H- 472	Automatic matrix guard, auxiliary, lever link l.h., stud	30	32	I- 5959	Automatic matrix guard lever link lever	32
H-2847	Automatic matrix guard lever, r.h., operating link stud	30		I- 5960	Automatic matrix guard lever link lever bracket, assembled	32
H-2847	Automatic matrix guard, auxiliary, lever link, r.h., stud	30	32	I- 5963	Automatic matrix guard operating lever link stud, upper	32
H-3591	Automatic matrix guard lever link lever bracket cover strap screw 1/4"-24 x 3/8" (42 em)		32	I- 5970	Automatic matrix guard operating lever link	32
I- 275	Automatic matrix guard lever, r.h., pin	29-30-31		I- 5971	Automatic matrix guard, auxiliary, lever link, upper section	32
I- 905	Automatic matrix guard lever, r.h., pin	29-30		I- 5972	Automatic matrix guard, auxiliary, lever link, assembled	32
I- 961	Automatic matrix guard, auxiliary, lever link stud		32	I- 5973	Automatic matrix guard lever link lever bracket cover stud, long (30 em)	32
I-2685	Automatic matrix guard lever, l.h., pin	29-30		I- 5974	Automatic matrix guard lever link lever bracket cover stud, short	32
I-2693	Automatic matrix guard lever, l.h., pin	29-30		I- 5975	Automatic matrix guard lever link lever bracket cover (30 em)	32
I-4813	Automatic matrix guard operating lever bracket screw 5/16"-18 x 1/2"		32	I- 6158	Automatic matrix guard lever link lever bracket cover (42 em)	32
I-5100	Automatic matrix guard lever link lever	30		I- 6159	Automatic matrix guard lever link lever bracket cover stud, long (42 em)	32
I-5101	Automatic matrix guard lever link lever bracket	30	32	I- 6160	Automatic matrix guard lever link lever bracket cover strap (42 em)	32
I-5103	Automatic matrix guard lever link lever operating handle		32	I- 6338	Automatic matrix guard operating lever bracket spacer	32
I-5181	Automatic matrix guard, auxiliary, lever link, r.h., assembled		30	I- 7587	Automatic matrix guard, auxiliary, lever link, r.h., lower section	30
I-5186	Automatic matrix guard lever link lever operating handle shaft		32	I- 7588	Automatic matrix guard, auxiliary, lever link, r.h., upper section	30
I-5187	Automatic matrix guard lever link lever operating handle direction plate		32	I- 7686	Automatic matrix guard, auxiliary, lever link, r.h., assembled	29
I-5206	Automatic matrix guard lever, l.h. and r.h., adjusting screw 1/4"-24 x 15/16"		31	I- 7999	Automatic matrix guard lever, r.h.	31
I-5206	Automatic matrix guard lever, r.h., adjusting screw 1/4"-24 x 15/16"		31	I- 8003	Automatic matrix guard lever, l.h.	31
I-5577	Automatic matrix guard lever, r.h.	29-30		I- 8004	Automatic matrix guard lever shaft	31
I-5586	Automatic matrix guard, auxiliary, lever link, l.h.	30		J- 463	Automatic matrix guard lever, l.h., pin nut 1/4"-24 x 3/8"	29-30
I-5587	Automatic matrix guard lever link lever operating handle shaft		30	J- 463	Automatic matrix guard lever, l.h. and r.h., adjusting screw lock nut	29-30-31
I-5604	Automatic matrix guard lever link lever operating handle		30	J- 511	Automatic matrix guard operating lever bracket dowel 3/16" x 1/2"	32
I-5645	Automatic matrix guard lever link lever bracket, assembled		30			

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 29-30-32

Automatic Matrix Guard Levers 107

A- 672	Automatic matrix guard lever link lever operating handle direction plate rivet	29-30-32	I-5631	Automatic matrix guard operating lever, lower, link turnbuckle lock nut, r.h.	29-30
B- 471	Automatic matrix guard lever, r.h., stop screw 8-32 x 7/8"	29	I-5655	Automatic matrix guard lever, r.h., optg. lever link, upper	29
C- 123	Channel entrance frame throwout lever link operating lever, front, link, l.h., stud cotter pin	30	I-5811	Automatic matrix guard lever, r.h., operating lever link nut, l.h. 5/16"-24 x 1/8"	29-30
C- 123	Auto. matrix guard lever link lever clevis stud cotter pin	30	I-5811	Automatic matrix guard operating lever, lower, link turnbuckle lock nut, l.h. 5/16"-24 x 1/8"	29-30
C- 123	Automatic matrix guard, auxiliary, lever link, r.h., stud cotter pin	30	I-5882	Automatic matrix guard lever shaft	29-30
C- 123	Channel entrance frame throwout lever link operating lever, front, stud cotter pin	30	I-5963	Automatic matrix guard lever, r.h., optg. lever link stud	30
C- 123	Magazine elevating crank drive shaft clutch shifting lever stud cotter pin	30	I-5963	Automatic matrix guard lever link lever stud	30
D- 331	Automatic matrix guard operating lever, lower, back, bracket dowel 1/8" x 9/16"	29-30	I-7436	Automatic matrix guard lever, r.h., operating lever	29
D- 802	Automatic mat. guard lever, r.h., stop screw nut 8-32 x 1/8"	29	I-7472	Automatic matrix guard lever, r.h., optg. lever link, lower	29
D- 840	Automatic mat. guard lever, r.h., operating lever link stud	29	I-7567	Automatic matrix guard lever, r.h., optg. lever link, assd.	29
D-4708	Auto. mat. guard lever link lever optg. handle shaft dowel	29-30	I-7576	Channel entrance control lever, front, shaft	30
D-5155	Auto. mat. guard optg. lever shoe set screw 8-32 x 7/16"	29-30	I-7577	Automatic matrix guard lever link lever operating handle shaft bearing, front	30
D-5302	Automatic matrix guard lever link lever clevis stud	30	I-7578	Magazine elevating crank drive shaft clutch shifting lever stud	30
D-5302	Channel entrance frame throwout lever link operating lever, front, link, l.h., stud	30	I-7579	Channel entrance, frame throwout lever link operating lever, front, lower, stud	30
E- 219	Auto. mat. guard optg. lever, lower, set screw 10-32 x 9/32"	30	I-7579	Automatic matrix guard, auxiliary, lever link, r.h., stud	30
E- 539	Auto. mat. guard lever link lever clevis nut 9/8"-32 x 1/2"	30	I-7584	Automatic matrix guard lever, r.h., operating lever link	30
E-2147	Automatic matrix guard lever, r.h., operating lever stud	30	I-7585	Automatic matrix guard lever link lever clevis	30
E-2720	Automatic matrix guard lever, r.h., stop screw stud nut 5/16"-18 x 1/8"	29	I-7591	Automatic matrix guard lever link lever operating handle shaft bearing, rear	30
E-2720	Automatic matrix guard lever link lever stop screw, l.h., nut 5/16"-18 x 1/8"	30	I-7616	Channel entrance frame throwout lever link operating lever, front, lower	30
E-2720	Automatic matrix guard lever link lever stop screw, r.h., nut 5/16"-18 x 1/8"	30	I-7618	Automatic matrix guard lever, r.h., operating lever	30
E-3959	Auto. mat. guard optg. lever shoe stop screw 10-32 x 9/16"	29-30	I-7619	Magazine elevating crank drive shaft clutch shifting lever	30
F- 31	Auto. mat. guard lever shaft collar set screw 1/4"-20 x 1/2"	29-30	I-7620	Automatic matrix guard lever link lever	30
F- 31	Mag. locating block support lever set screw 1/4"-20 x 1/2"	29-30	I-7624	Channel entrance frame throwout lever link operating lever, front, lower, link	30
F- 463	Automatic matrix guard lever link lever operating handle bracket dowel 3/16" x 5/8"	30	I-7643	Magazine elevating shaft crank shaft bracket support	30
F-2344	Automatic matrix guard operating lever shoe stop screw nut 10-32 x 3/32"	29-30	I-7793	Automatic matrix guard lever link lever operating handle bracket	30
F-7847	Automatic matrix guard lever link lever operating handle adjusting pointer locking stud lock washer	30	I-7802	Automatic matrix guard lever, r.h.	29
G- 139	Automatic matrix guard operating lever link spring hook	30	I-7812	Automatic matrix guard lever link lever operating handle adjustable pointer	30
G-3398	Automatic matrix guard lever, r.h., link end, lower, stud lock nut 1/4"-24 x 3/8"	29	I-7813	Automatic matrix guard lever link lever operating handle adjustable pointer locking stud	30
G-3398	Auto. mat. guard optg. lever spacer stud nut 1/4"-24 x 3/8"	29-30	I-7814	Automatic matrix guard lever link lever operating handle	30
G-3836	Auto. mat. guard lever, r.h., optg. lever link turnbuckle	29-30	I-7815	Automatic matrix guard lever operating handle shaft	30
G-3836	Auto. mat. guard operating lever, lower, link turnbuckle	29-30	I-7816	Automatic matrix guard lever link lever handle, assembled	30
G-4523	Automatic matrix guard operating lever shoe	29-30	I-7817	Automatic matrix guard lever, r.h., link end, lower, stud	29
H- 144	Chan. ent. control lever, front, shaft set screw 8-32 x 5/16"	30	I-7832	Automatic matrix guard lever, r.h., link	29-30
H- 742	Auto. matrix guard lever, r.h., stop screw nut 10-32 x 1/8"	29-30	I-7833	Automatic matrix guard operating lever	29-30
I- 567	Automatic matrix guard lever, r.h., stop screw 10-32 x 7/8"	29-30	I-7910	Automatic matrix guard operating lever arm	29-30
I- 905	Magazine elevating shaft pawl lever pin .325" x 1/2"	29-30	I-7911	Automatic matrix guard operating lever spacer	29-30
I-2079	Automatic matrix guard operating lever roll stud	29-30	I-7987	Magazine elevating shaft pawl lever	29-30
I-2686	Automatic matrix guard lever, l.h.	29-30	I-8031	Automatic matrix guard lever, r.h.	29
I-3087	Automatic matrix guard lever link lever stop screw, l.h., nut 5/16"-18 x 3/16"	30	I-8036	Automatic matrix guard lever, r.h., operating lever link, lower	29
I-5197	Auto. mat. guard lever link lever optg. hdlc. direction plate	30-32	I-8041	Automatic matrix guard lever, r.h., stop screw stud	29
I-5246	Automatic matrix guard operating lever roll	29-30	I-8043	Automatic matrix guard lever shaft collar	29-30
I-5581	Automatic matrix guard lever link lever stop screw, r.h. 5/16"-18 x 11/18"	30	I-8046	Automatic matrix guard lever, r.h.	30
I-5582	Auto. mat. guard lvr. link lvr. stop screw, l.h. 5/16"-18 x 7/8"	30	I-8059	Automatic matrix guard lever, r.h., operating lever link, assembled	29
I-5631	Automatic matrix guard lever, r.h., operating lever link nut, r.h. 5/16"-24 x 1/8"	29			

Parts Not Illustrated

I-8057	Automatic matrix guard lever, assembled	30
I-8058	Automatic matrix guard lever, assembled	29

Please Give Model and Serial Number When Ordering

I-5422
(UPPER)

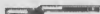
D-354



I-5421



H-140

I-8030
(UPPER)I-5570 (L.H.)
I-5540 (L.H.) (ASSEMBLED)

I-5420 (L.H.)



I-5572



I-5419 (R.H.)



D-526



I-5608 (UPPER)



H-207 (L.H.)

I-5569 (R.H.)
I-5646 (R.H.) (ASSEMBLED)

I-5576



I-5251



I-5252



G-2790



I-5567



I-5574 (L.H.)



I-5571 (LOWER)



I-5573



I-5575



I-5641 (LOWER)



D-1030



I-568

Assembling Mechanism

Models 29-30-31-32

Automatic Matrix Guard 109

D- 354	Automatic matrix guard support, r.h., guide screw	31-32	I-5419	Automatic matrix guard support, r.h.	31-32
D- 354	Automatic matrix guard support, l.h., guide screw, lower	31-32	I-5420	Automatic matrix guard support, l.h.	31-32
D- 526	Automatic matrix guard operating bar bracket		I-5421	Automatic matrix guard	31-32
	gib screw 4-48 x 3/16"	29-30	I-5422	Automatic matrix guard support, l.h., guide screw, upper	31-32
D-1030	Automatic matrix guard operating bar, l.h., bracket		I-5567	Automatic matrix guard operating bar, l.h., bracket	29-30
	dowel 1/8" x 1"	29-30	I-5569	Automatic matrix guard operating bar, r.h.	29-30
D-1030	Automatic matrix guard bar, l.h., bracket dowel 1/8" x 1"	29-30	I-5570	Automatic matrix guard operating bar, l.h.	29-30
G-2790	Automatic matrix guard operating bar safety latch		I-5571	Automatic matrix guard, lower	29-30
	spring eye	29-30	I-5572	Automatic matrix guard operating bar bracket gib	29-30
G-2790	Automatic matrix guard, lower, safety latch spring eye	29-30	I-5573	Automatic matrix guard, lower, safety latch, r.h.	29-30
H- 140	Automatic matrix guard screw, r.h.	31-32	I-5574	Automatic matrix guard, lower, safety latch, l.h.	29-30
H- 140	Automatic matrix guard screw, upper	29-30	I-5575	Automatic matrix guard, lower, safety latch spring	29-30
H- 207	Automatic matrix guard screw, l.h. 8-32 x 1/4"	31-32	I-5576	Automatic matrix guard, lower, safety latch	
I- 568	Automatic matrix guard operating bar, l.h., bracket			fulcrum stud	29-30
	screw 10-32 x 1"	29-30	I-5608	Automatic matrix guard, upper	29-30
I- 568	Automatic matrix guard bar, l.h., bracket		I-5640	Automatic matrix guard operating bar, l.h., assembled	29-30
	screw 10-32 x 1"	29-30	I-5641	Automatic matrix guard, lower, assembled	29-30
I-5251	Automatic matrix guard operating bar, r.h., stud	29-30	I-5646	Automatic matrix guard operating bar, r.h., assembled	29-30
I-5252	Automatic matrix guard operating bar, l.h., screw	29-30	I-8030	Automatic matrix guard screw, upper	29-30

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G-3993 (LOWER)



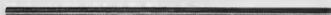
F-370



E-3306



D-3146

I-5622
(LOWER) (FRONT)I-5551 (30)
I-5828 (31)
I-5882 (32)
I-5940 (32)

I-5399 (L.H.)



I-4926



H-742



I-5402



I-905



I-8000



I-5398 (R.H.)



J-463



I-2685



I-5943

I-5941 (L.H.)
I-5942 (L.H.)

J-463



I-5206



E-539



H-472



I-6418

I-6151

I-6152



I-5660



I-5661



I-2550 (R.H.)



J-463



I-905



F-31



G-38b1



I-2551 (L.H.)



I-5205



J-463



I-2685



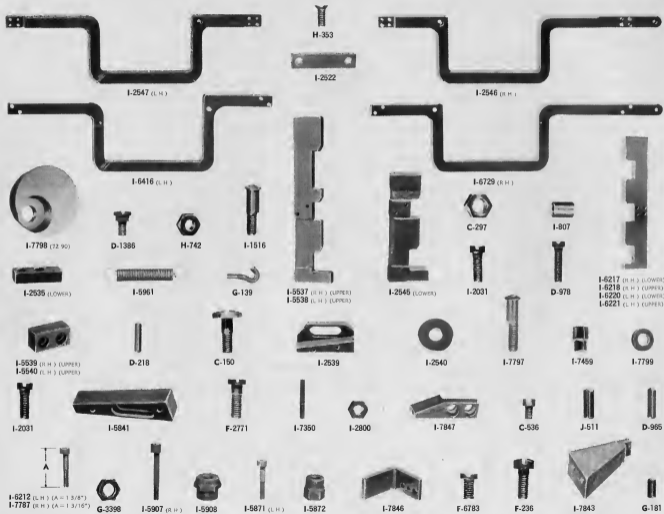
E-219



E-84

D-3146	Distributor screw guard operating lever, lower, retaining washer screw 1/4"-24 x 1/2"	32	I-5551	Magazine locating block support lever shaft	30
E- 84	Automatic matrix guard operating lever, lower pin 3/16" x 1 3/16"	30	I-5622	Distributor screw guard operating lever, lower, front	30
E- 219	Automatic matrix guard operating lever, lower, set screw 10-32 x 9/32"	30	I-5660	Magazine locating block lever operating lever link, intermediate section	32
E- 539	Magazine locating block lever operating lever link, intermediate section, lock nut 3/8"-32 x 1/2"	32	I-5661	Magazine locating block lever operating lever link, intermediate section, pin	32
E-3306	Distributor screw guard operating lever, lower, retaining washer	32	I-5828	Magazine locating block lever shaft	31
F- 31	Magazine locating block support lever set screw 1/4"-30 x 1/2"	29-30	I-5882	Magazine locating block support lever shaft	29
F- 370	Distributor screw guard operating lever, lower, screw	32	I-5940	Magazine locating block support lever shaft	32
F- 370	Distributor screw guard lever operating lever, lower, screw	31	I-5941	Magazine locating block lever supporting lever, r.h.	32
G-3851	Magazine locating block support lever, r.h., stop screw	29-30	I-5942	Magazine locating block lever supporting lever, l.h.	32
G-3993	Distributor screw guard, auxiliary, operating lever, lower	32	I-5943	Magazine locating block lever operating lever	32
H- 472	Magazine locating block lever operating lever link stud	32	I-6151	Magazine locating block lever operating lever link, long	32
H- 742	Magazine locating block lever, r.h., stop screw lock nut 10-32 x 3/8"	31-32	I-6152	Magazine locating block lever operating lever link, assembled	32
H- 742	Magazine locating block support lever, r.h., stop screw lock nut	29-30	I-6418	Magazine locating block lever operating lever link, short	32
I- 905	Magazine locating block lever supporting lever, r.h. and l.h., pin .229" x 1 1/2"	32	I-8000	Magazine locating block support lever	31-32
I- 905	Magazine locating block support lever, r.h., pin .229" x 1 1/2"	29-30	J- 463	Magazine locating block lever operating lever pin nut 1/4"-24 x 3/8"	32
I- 905	Magazine elevating shaft pawl lever rod lever pin .229" x 1 1/2"	29-30-31-32	J- 463	Magazine locating block lever, r.h. and l.h., supporting screw lock nut 1/4"-24 x 3/8"	32
I- 905	Magazine locating block lever, r.h. and l.h., pin .229" x 1 1/2"	31-32	J- 463	Magazine locating block support lever, r.h., pin nut 1/4"-24 x 3/8"	30
I-2550	Magazine locating block support lever, r.h.	29-30	J- 463	Magazine locating block support lever, l.h., pin nut 1/4"-24 x 3/8"	29
I-2551	Magazine locating block support lever, l.h.	29-30	J- 463	Magazine locating block support lever, l.h., auxiliary, lever adjusting screw lock nut 1/4"-20 x 3/8"	29-30
I-2685	Magazine locating block support lever, l.h., auxiliary, lever pin	29-30	<u>Parts Not Illustrated</u>		
I-2685	Magazine locating block support lever, l.h., pin	29-30	I-5638	Magazine locating block support lever, assembled (to serial No. 57275)	30
I-2685	Magazine locating block lever operating lever pin	32	I-5657	Magazine locating block support lever, assembled (to serial No. 57090)	29
I-4926	Magazine elevating shaft pawl lever rod lever	29-30-31-32	I-5829	Magazine locating block lever, assembled (to serial No. 61348)	31
I-5205	Magazine locating block support lever, l.h., auxiliary, lever	29-30	I-5944	Magazine locating block lever, assembled (to serial No. 61348)	32
I-5206	Magazine locating block support lever, l.h., auxiliary, lever adjusting screw	29-30	I-7803	Magazine locating block support lever, assembled (from serial No. 59100 to No. 61942)	29
I-5206	Magazine locating block lever, r.h. and l.h., supporting screw	32	I-7804	Magazine locating block support lever, assembled (from serial No. 57275 to No. 61942)	30
I-5398	Magazine locating block lever, r.h.	31-32	I-8019	Magazine locating block support lever, assembled (from serial No. 81349)	31
I-5399	Magazine locating block lever, l.h.	31-32	I-8023	Magazine locating block support lever, assembled (from serial No. 81349)	32
I-5402	Magazine locating block lever, r.h., stop screw	31-32			

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 29-30

Magazine Frame, Locating Block 113

C- 150 Magazine locating block support adjusting piece screw 1/4"-24 x 23/32"	29-30	I-5871 Magazine locating block, lower, guide, l.h.	29-30
C- 297 Magazine locating block support nut 5/16"-18 x 1/2"	29-30	I-5872 Magazine locating block, lower, guide, l.h., lock nut	29-30
C- 297 Magazine locating block support lever locking roll stud nut (72-90)	29-30	I-5872 Magazine locating block guide, upper, lock nut	29-30
C- 536 Magazine locating block, auxiliary, stop lever, stop screw	30	I-5907 Magazine locating block, lower, guide, r.h.	29-30
D- 218 Magazine locating block support adjusting piece dowel 1/8" x 1/2"	29-30	I-5908 Magazine locating block, lower, guide, r.h., lock nut	29-30
D- 965 Magazine locating block connecting bar, r.h., stop dowel	29	I-5961 Magazine locating block support spring	29-30
D- 978 Magazine locating block support, r.h., upper, screw 10-32 x 3/4"	29-30	I-6212 Magazine locating block, upper, guide, l.h.	29-30
D- 978 Magazine locating block, l.h., upper, screw	29-30	I-6217 Magazine locating block, r.h., lower	29-30
D-1386 Magazine locating block support spring screw	29-30	I-6218 Magazine locating block, r.h., upper	29-30
F- 236 Magazine locating block connecting bar, r.h., stop screw	29	I-6220 Magazine locating block, l.h., lower	29-30
F-2771 Magazine locating block adjusting piece screw	29-30	I-6221 Magazine locating block, l.h., upper	29-30
F-6783 Magazine locating block connecting bar, r.h., stop screw	30	I-6416 Magazine locating block support connecting bar, l.h.	29-30
G- 139 Magazine locating block support spring hook	29-30	I-6729 Magazine locating block support connecting bar, r.h.	29-30
G- 181 Magazine locating block connecting bar, r.h., stop dowel	30	I-7350 Magazine locating block adjusting piece dowel	29-30
G-3398 Magazine locating block guide, upper, lock nut	29-30	I-7459 Magazine locating block support screw nut	29-30
H- 353 Magazine locating block support connecting bar gib screw 8-32 x 3/8"	29-30	I-7787 Magazine locating block, upper, guide, r.h.	29-30
H- 742 Magazine locating block support, upper, retaining stud nut 10-32 x 3/8"	29-30	I-7797 Magazine locating block support, r.h., screw	29-30
I- 807 Magazine locating block support screw roll	29-30	I-7798 Magazine locating block support lever locking eccentric (72-90)	29-30
I- 807 Magazine locating block support lever locking roll (72-90)	29-30	I-7799 Magazine locating block support screw nut, r.h., washer (90)	29-30
I-1516 Magazine locating block support screw	29-30	I-7843 Magazine locating block connecting bar, r.h., stop	29
I-1516 Magazine locating block support lever locking roll stud (72-90)	29-30	I-7846 Magazine locating block connecting bar, r.h., stop	30
I-2031 Magazine locating block support, lower, screw 10-32 x 1/2"	29-30	I-7847 Magazine locating block, auxiliary, stop lever stop	30
I-2031 Magazine locating block, r.h., upper, screw 10-32 x 1/2"	29-30	J- 511 Magazine locating block support, r.h., upper, dowel 3/16" x 1/2"	29-30
I-2031 Magazine locating block support, l.h., upper, screw	29-30	J- 511 Magazine locating block support, lower, dowel 3/16" x 1/2"	29-30
I-2522 Magazine locating block support connecting bar gib	29-30	J- 511 Magazine locating block support, l.h., upper, dowel 3/16" x 1/2"	29-30
I-2535 Magazine locating block, lower	29-30		
I-2539 Magazine locating block support adjusting piece	29-30	<u>Parts Not Illustrated</u>	
I-2540 Magazine locating block support adjusting piece screw washer	29-30	I-5552 Magazine locating block support, r.h., assembled (up to serial No. 53427)	29-30
I-2545 Magazine locating block support, lower	29-30	I-5553 Magazine locating block support, l.h., assembled (up to serial No. 53427)	29-30
I-2546 Magazine locating block support connecting bar, r.h.	29-30	I-6219 Magazine locating block support, r.h., assembled (from serial No. 53428 to serial No. 57099)	29-30
I-2547 Magazine locating block support connecting bar, l.h.	29-30	I-6222 Magazine locating block support, l.h., assembled (from serial No. 53428)	29-30
I-2800 Magazine locating block adjusting piece dowel nut	29-30	I-7800 Magazine locating block support, r.h., assembled (72-90) (from serial No. 57100)	29-30
I-5537 Magazine locating block support, r.h., upper	29-30	I-7801 Magazine locating block support, r.h., assembled (90) (from serial No. 57100)	29-30
I-5538 Magazine locating block support, l.h., upper	29-30		
I-5539 Magazine locating block, r.h., upper	29-30		
I-5540 Magazine locating block, l.h., upper	29-30		
I-5841 Magazine locating block adjusting piece	29-30		

Please Give Model and Serial Number When Ordering



J-512



I-5907 (R.H.)



I-5908



I-5871 (L.H.)



I-5872



I-5042



I-5041



I-106



J-511



C-297

I-5832 (R.H.) (UPPER)
I-5833 (L.H.) (UPPER)
I-5834 (R.H.) (LOWER)
I-6116 (L.H.) (LOWER)

D-1386



I-5961



G-139



I-2031



H-742



I-807



I-1516



I-2800



I-7350



I-5841



F-2771



F-4797



I-2539



D-218



H-363



I-5390

I-5366 (R.H.)
I-5370 (L.H.)

C-150



I-2540

Assembling Mechanism

Models 31-32

Magazine Frame, Locating Block 115

C- 150 Magazine locating block adjusting piece screw 1/4"-24 x 23/32"	31-32	I-5041 Magazine locating block, upper, guide bracket	31-32
C- 297 Magazine locating block nut 5/16"-18 x 1/2"	31-32	I-5042 Magazine locating block, upper, guide	31-32
D- 218 Magazine locating block support adjusting piece dowel 1/8" x 1/2"	32	I-5366 Magazine locating block connecting bar, r.h.	31-32
D- 218 Magazine locating block support adjusting piece dowel	31-32	I-5370 Magazine locating block connecting bar, l.h.	31-32
D-1386 Magazine locating block spring screw	31-32	I-5390 Magazine locating block connecting bar gib	31-32
F-2771 Magazine locating block adjusting piece screw 1/4"-24 x 11/16"	31-32	I-5832 Magazine locating block, r.h., upper	31-32
F-4797 Magazine locating block support adjusting piece dowel 1/8" x 3/4"	31	I-5833 Magazine locating block, l.h., upper	31-32
G- 139 Magazine locating block support spring hook	31-32	I-5834 Magazine locating block, lower, r.h.	31-32
G- 139 Magazine locating block spring hook	31-32	I-5841 Magazine locating block, lower, adjusting piece	31-32
H- 353 Magazine locating block support connecting bar gib screw 8-32 x 3/8"	31-32	I-5871 Magazine locating block, lower, guide, l.h.	31-32
H- 742 Magazine locating block, upper, guide lock nut 10-32 x 3/8"	31-32	I-5872 Magazine locating block, lower, guide, l.h., lock nut	31-32
I- 186 Magazine locating block, upper, guide bracket lock nut 3/8"-18 x 5/8"	31-32	I-5907 Magazine locating block, lower, guide, r.h.	31-32
I- 807 Magazine locating block screw roll	31-32	I-5908 Magazine locating block, lower, guide, r.h., lock nut	31-32
I-1516 Magazine locating block screw	31-32	I-5961 Magazine locating block support spring	31-32
I-2031 Magazine locating block support, lower, screw 10-32 x 1/2"	31-32	I-6116 Magazine locating block, lower, l.h.	31-32
I-2031 Magazine locating block, lower, screw 10-32 x 1/2"	31-32	I-7350 Magazine locating block adjusting piece dowel	31-32
I-2031 Magazine locating block, r.h., upper, screw 10-32 x 1/2"	31-32	J- 511 Magazine locating block, r.h., upper, dowel 3/16" x 1/2"	31-32
I-2031 Magazine locating block, l.h., upper, screw 10-32 x 1/2"	31-32	J- 511 Magazine locating block, lower, dowel 3/16" x 1/2"	31-32
I-2539 Magazine locating block adjusting piece	31-32	J-5182 Magazine locating block, lower, guide, l.h., lock nut	31-32
I-2540 Magazine locating block adjusting piece screw washer	31-32		
I-2800 Magazine locating block adjusting piece dowel nut	31-32		
		<u>Parts Not Illustrated</u>	
		I-5835 Magazine locating block, r.h., assembled	31-32
		I-5836 Magazine locating block, l.h., assembled	31-32

Please Give Model and Serial Number When Ordering



F-689



H-457



I-1072

I-5837 (R.H.)
I-5838 (L.H.)I-5834 (A = 1.7/16")
I-8037 (A = 1.5/32")

I-4495

I-6229 (R.H.)
I-6328 (L.H.)

E-947



I-5385



I-4495

I-5924 (R.H.)
I-5933 (L.H.)

B-222

I-5839 (R.H.)
I-5840 (L.H.)

I-5930



I-6230



I-8035



I-5928



I-6334



I-5925

I-5842
I-5843

D-164



I-1120



I-5386



I-5353



I-6228



I-6327



I-6232



I-6231



I-5927



I-6233



I-4784



G-240



I-7343



B-217



I-7344



H-353



I-7346



I-5656



D-717



I-7345 (R.H.)

I-5580 (L.H.)
I-5579 (LOWER) (R.H.)

H-352



F-2771



D-2471

I-5594 (R.H.)
I-5595 (L.H.)

J-5444



E-2720



E-503



H-2290

I-3793
I-6693

I-5581



I-2536



I-5583



G-3398



I-5909



F-3969



H-1932



I-5682



I-1873



D-164



I-8005

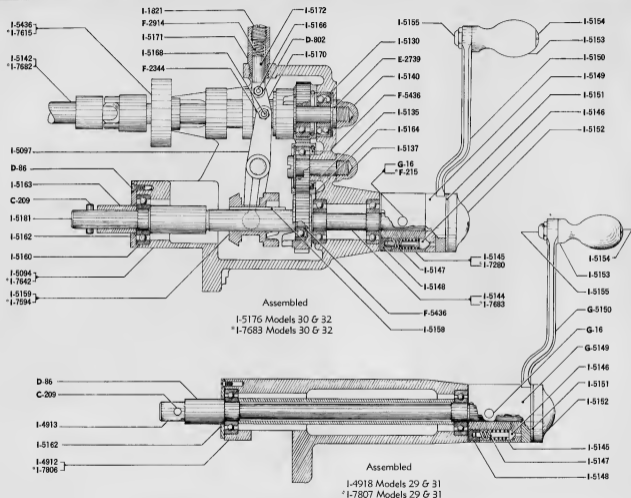
Assembling Mechanism

Models 5-29-30-31-32

Magazine Frame, Guide and Adjusting 117

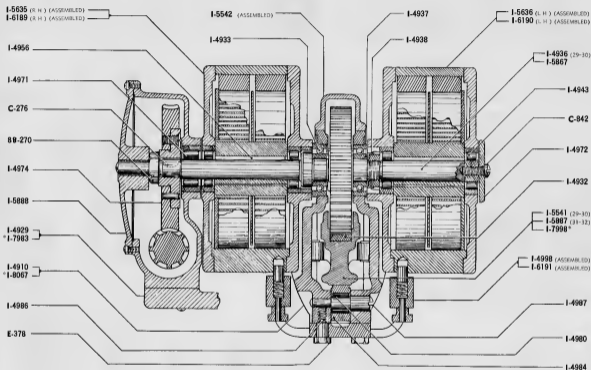
B- 217 Magazine frame locating block gib screw	5	I-5582 Magazine side adj. block adj. screw, l.h. 5/16"-18 x 7/8"	29-30
B- 222 Magazine frame, lower, guide rail dowel, upper 1/4" x 1 3/16" (use with I-5858 and I-5840)	31-32	I-5583 Magazine side adj. block bracket adjusting screw nut lock nut	29-30
B- 222 Magazine locating block, lower, dowel	5	I-5584 Magazine adjusting block, r.h.	31-32
D- 164 Magazine frame side adj. block screw 1/4"-24 x 15/16"	29-30-31-32	I-5585 Magazine adjusting block, l.h.	29-30
D- 164 Magazine frame side adjusting block, l.h., screw	5	I-5656 Magazine frame locating block, lower, l.h., screw 3/8"-16 x 1 3/8"	29-30
D- 717 Magazine locating block, lower, screw	5	I-5656 Magazine frame locating block, lower, r.h., screw 3/8"-16 x 1 3/8"	29-30
D-2471 Magazine adjusting block, l.h., adjusting screw, upper 5/16"-18 x 9/16"	29-30	I-5837 Magazine frame, lower, guide rail, r.h.	31-32
D-2471 Magazine adjusting block, r.h., adjusting screw, upper 5/16"-18 x 9/16"	29-30	I-5838 Magazine frame, lower, guide rail, l.h.	31-32
E- 503 Magazine adjusting block, l.h., adjusting screw, upper, lock screw 5/16"-18 x 5/16"	29-30	I-5839 Magazine frame, lower, guide rail spacer, r.h.	31-32
E- 503 Magazine adjusting block, r.h., adjusting screw, upper, lock screw 5/16"-18 x 5/16"	29-30	I-5840 Magazine frame, lower, guide rail spacer, l.h.	31-32
E- 947 Magazine frame guide side supporting roll stud set screw nut 1/4"-32 x 3/8"	31-32	I-5842 Magazine frame, lower, guide rail screw, upper 1/4"-24 x 9/16"	31-32
E- 947 Magazine frame guide roller stud lock screw lock nut 1/4"-32 x 3/8"	29-30	I-5843 Magazine frame, lower, guide rail screw, upper 1/4"-24 x 1" (use with I-5839 and I-5840)	31-32
E-2720 Magazine adjusting block, l.h., adjusting screw, lower, nut 5/16"-18 x 1/2"	29-30	I-5909 Magazine frame side adjusting block adjusting screw lock nut, r.h.	5 31-32
E-2720 Magazine adjusting block, r.h., adjusting screw, lower, nut 5/16"-18 x 1/2"	29-30	I-5924 Magazine frame guide side supporting roll bracket, r.h.	31-32
F- 689 Magazine frame, lower, guide rail screw, lower 1/4"-24 x 3/4"	31-32	I-5925 Magazine frame guide side supporting roll bracket, r.h., screw, intermediate 5/16"-18 x 9/16"	31-32
F-2771 Magazine frame locating block screw	5	I-5925 Magazine frame guide side supporting roll bracket, l.h., screw 5/16"-18 x 9/16"	31-32
F-3969 Magazine frame side adjusting screw 1/4"-24 x 3/4"	5	I-5926 Magazine frame guide side supporting roll bracket, r.h., screw, long 5/16"-18 x 13/16"	31-32
G- 240 Magazine frame locating block dowel	6	I-5927 Magazine frame guide side supporting roll stud	31-32
G-3398 Magazine frame side adjusting screw lock nut 1/4"-24 x 3/8"	5	I-5928 Magazine frame guide side supporting roll stud lock screw	31-32
H- 352 Mag. frame locating block, lower, l.h., screw washer	29-30	I-5933 Magazine frame guide side supporting roll bracket, l.h.	31-32
H- 352 Mag. frame locating block, lower, r.h., screw washer	29-30	I-5934 Magazine frame guide ball bearing roll stud lock screw	31-32
H- 353 Magazine frame locating block gib screw	5	I-6073 Magazine frame side adjusting block	31-32
H- 457 Mag. frame, lower, guide rail screw, lower, washer	31-32	I-6073 Magazine frame side adjusting block, r.h.	5-29-30-31-32
H-1932 Magazine frame side adjusting block, l.h., dowel	5-29-30-31-32	I-6228 Magazine frame guide roller	29-30-31-32
H-2290 Magazine adjusting block, l.h., screw 1/4"-24 x 5/8"	29-30	I-6229 Magazine frame guide roller stud, r.h.	29-30
H-2290 Magazine adjusting block, r.h., screw 1/4"-24 x 5/8"	29-30	I-6230 Magazine frame guide roller stud lock screw	29-30
I-1072 Magazine frame, lower, guide rail dowel, lower and upper 1/4" x 3/4"	31-32	I-6231 Magazine frame guide side supporting roller	29-30
I-1120 Magazine frame guide rail pin, r.h. and l.h.	29-30	I-6232 Magazine frame guide side supporting roller, r.h., stud	29-30
I-1873 Magazine frame side adjusting block adjusting screw, l.h. 5/16"-18 x 1 3/8"	31-32	I-6233 Magazine frame guide side supporting roller, r.h., stud retaining key	29-30
I-2536 Magazine frame side adjusting block adjusting screw 5/16"-18 x 1 1/8"	31-32	I-6327 Magazine frame guide side supporting roller, l.h., stud	29-30
I-3793 Magazine frame side adjusting block	29-30	I-6328 Magazine frame guide side supporting roller, l.h., stud set screw	29-30
I-4495 Magazine frame guide ball bearing roll stud lock screw lock nut 5/16"-32 x 1/2"	31-32	I-6334 Magazine frame guide side supporting roller, l.h., stud set screw lock nut	29-30
I-4495 Magazine frame guide side supporting roller, r.h., stud lock nut	29-30	I-7343 Magazine frame locating block	5
I-4784 Magazine frame guide side supporting roll bracket, r.h., screw, short 5/16"-18 x 7/16"	31-32	I-7344 Magazine frame locating block gib	5
I-5353 Magazine frame guide ball bearing roll	31-32	I-7345 Magazine locating block, lower, r.h.	5
I-5385 Magazine frame guide side supporting roll stud set screw 1/4"-32 x 9/16"	31-32	I-7346 Magazine locating block, lower, l.h.	5
I-5386 Magazine frame guide ball bearing roll spacer	31-32	I-8005 Magazine frame guide side adjusting block, l.h.	29-30
I-5379 Magazine frame locating block, lower, r.h.	29-30	I-8035 Magazine frame guide roller stud lock screw	29-30
I-5580 Magazine frame locating block, lower, l.h.	29-30	I-8037 Magazine frame guide roller stud	31-32
I-5581 Magazine side adjusting block adjusting screw, r.h. 5/16"-18 x 11/16"	29-30	J-5444 Magazine adjusting block, l.h., adjusting screw, lower 5/16"-18 x 1 1/16"	29-30
		J-5444 Magazine adjusting block, r.h., adjusting screw, lower, 5/16"-18 x 1 1/16"	29-30

Please Give Model and Serial Number When Ordering



*Used on Machines from Serial Number 57100.

Check Parts by Referring to Detail Pages.



ASSEMBLED

I-5637 MODELS (29-30)
 I-5890 MODELS (31-32)
 I-8024 MODELS (29-30)
 I-8062 MODELS (31-32)

* Used on Models 29-30 From Serial No. 61448
 * Used on Models 31-32 From Serial No. 61942

Check Parts by Referring to Detail Pages.



Assembling Mechanism

Models 29-30-31-32

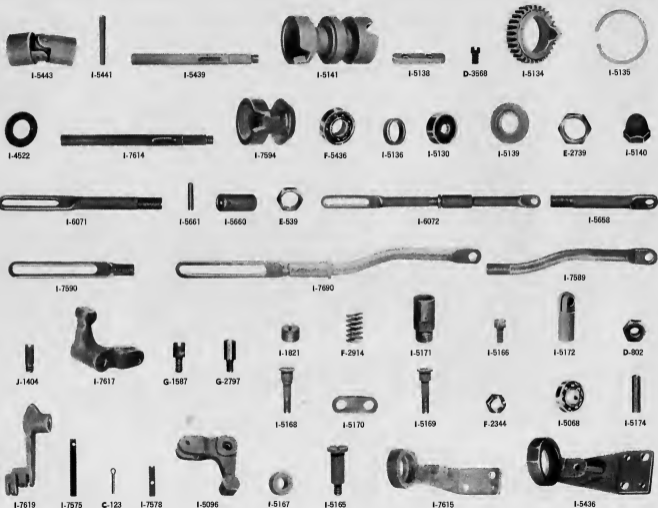
Magazine Frame, Elevating 121

A-115	Magazine elevating crank shaft bracket dowel 3/8" x 7/8"	29	31	I-5151	Magazine elevating shaft crank shaft nut washer	29-30-31-32
A-115	Magazine elevating shaft and crank shaft bracket dowel	30	32	I-5152	Magazine elevating shaft crank shaft nut	29-30-31-32
A-659	Magazine elevating shaft crank shaft bracket screw	30		I-5153	Magazine elevating shaft crank handle	29-30-31-32
A-659	Magazine elevating screw crank shaft bracket screw	31-32		I-5154	Magazine elevating shaft crank handle stud	29-30-31-32
A-659	Magazine elevating shaft crank shaft bracket extension screw	30		I-5155	Magazine elevating shaft crank handle stud nut	29-30-31-32
B-295	Magazine elevating screw crank shaft bracket screw 1/2"-12 x 1/2"	29-30-31-32		I-5156	Magazine elevating shaft crank shaft detent	30
C-209	Magazine elevating universal joint pin 1/4" x 1 1/16"	29	31	I-5157	Magazine elevating shaft crank shaft detent spring	30
C-209	Magazine elevating shaft crank shaft extension universal joint pin 1/4" x 1 1/16"	30	32	I-5158	Magazine elevating shaft crank shaft extension, ball bearing, small	30
D-86	Magazine elevating shaft crank shaft ball bearing retainer screw 8-32 x 9/32"	29	31	I-5160	Magazine elevating shaft crank shaft extension, ball bearing, large	30
D-86	Magazine elevating shaft crank shaft extension ball bearing, large, retainer screw 8-32 x 9/32"	30	32	I-5161	Magazine elevating shaft crank shaft extension, ball bearing, large, retainer	30
D-1535	Magazine, auxiliary, elevating drive shaft, horizontal, long, collar set screw	30	32	I-5162	Magazine elevating shaft crank shaft extension, ball bearing, large, retainer	30
F-215	Magazine elevating shaft crank detent housing pin 1/4" x 1 3/4"	30		I-5163	Magazine elevating shaft crank shaft extension sleeve	30
F-5436	Magazine elevating shaft crank shaft ball bearing	29-30-31-32		I-5164	Magazine, auxiliary, elevating driving gear, intermediate	30
F-5436	Magazine, auxiliary, elevating driving gear, intermediate, ball bearing	30	32	I-5189	Magazine elevating shaft crank shaft bracket dowel 7/16" x 7/8"	30
G-16	Magazine elevating shaft crank detent housing pin 5/16" x 1 3/4"	29-30-31-32		I-5437	Magazine, auxiliary, elevating drive shaft, horizontal, lock pin and shaft support bracket dowel	30
H-1782	Magazine elevating shaft crank shaft bracket support dowel	30		I-5926	Magazine elevating shaft crank shaft bracket support screw, intermediate	30
I-4437	Magazine elevating shaft crank shaft ball bearing retainer	29	31	I-7280	Magazine elevating shaft crank detent housing	30
I-4522	Magazine, auxiliary, elevating drive gear, intermediate, retaining washer	30	32	I-7574	Magazine elevating shaft crank shaft bracket support screw, upper	30
I-4813	Magazine, auxiliary, elevating drive shaft, horizontal, lock pin bracket screw	30	32	I-7636	Magazine elevating shaft crank shaft	30
I-4913	Magazine elevating shaft crank shaft	29	31	I-7643	Magazine elevating shaft crank shaft bracket support	30
I-4914	Magazine elevating shaft ball bearing spacer sleeve	29	31	I-7805	Magazine elevating shaft crank shaft bracket screw	29
I-5095	Magazine elevating shaft bracket support bracket	32		I-7810	Magazine elevating shaft crank shaft bracket extension	30
I-5097	Magazine elevating crank drive shaft clutch shifting lever	30	32	I-7811	Magazine, auxiliary, elevating drive shaft gear housing support	30
I-5135	Magazine, auxiliary, elevating driving gear, intermediate, ball bearing retainer	30	32	I-8079	Magazine, auxiliary, elevating drive shaft, horizontal, long, collar	30
I-5137	Magazine, auxiliary, elevating driving gear, intermediate, ball bearing stud	30	32	J-463	Magazine, auxiliary, elevating drive shaft, horizontal, lock pin and shaft support bracket dowel nut 1/4"-24 x 3/8"	30
I-5140	Magazine, auxiliary, elevating driving gear, intermediate, ball bearing stud nut	30	32	J-3377	Magazine elevating shaft crank shaft bracket extension dowel	30
I-5144	Magazine elevating shaft crank shaft	30	32	J-3377	Magazine elevating shaft crank shaft bracket dowel	30
I-5145	Magazine elevating shaft crank detent housing	29-30-31-32		J-4791	Magazine elevating shaft crank shaft bracket support screw	30
I-5146	Magazine elevating shaft crank detent	29-30-31-32		<u>Parts Not Illustrated</u>		
I-5147	Magazine elevating shaft crank detent spring	29-30-31-32		I-4912	Magazine elevating shaft crank shaft bracket	31
I-5148	Magazine elevating shaft crank detent spring adjusting bushing	29-30-31-32		I-5094	Magazine elevating shaft crank shaft bracket	30
I-5149	Magazine elevating shaft crank facing	29-30-31-32		I-7642**	Magazine elevating shaft crank shaft bracket	30
I-5150	Magazine elevating shaft crank	29-30-31-32		I-7806	Magazine elevating shaft crank shaft bracket	29

Please Give Model and Serial Number When Ordering

**Used on Model 30, up to Serial No. 57099.

**Used on Model 30, from Serial No. 57100.



Assembling Mechanism

Models 30-32

Magazine Frame, Elevating 123

C- 123 Magazine elevating crank drive shaft clutch shifting lever stud cotter pin	30	I-5171 Magazine elevating crank drive shaft clutch shifting lever detent housing	30-32
D- 802 Magazine elevating crank drive shaft clutch shifting lever detent link stud nut	30-32	I-5172 Magazine elevating crank drive shaft clutch shifting lever detent plunger	30-32
D-3568 Magazine elevating shaft crank shaft clutch key screw	30-32	I-5174 Magazine, auxiliary, elevating drive shaft, horizontal, lock pin $5/16" \times 1 9/32"$	30-32
D-3569 Magazine, auxiliary, elevating driving shaft, horizontal, clutch key screw	30-32	I-5436 Magazine, auxiliary, elevating drive shaft, horizontal, lock pin and shaft support bracket	30-32
E- 539 Magazine elevating crank drive shaft clutch shifting lever link, intermediate, section lock nut	30-32	I-5439 Magazine, auxiliary, elevating drive shaft, horizontal, long universal pin $1 1/8" \times 1 1/8"$	30-32
E-2739 Magazine, auxiliary, elevating drive shaft, horizontal, nut	30-32	I-5441 Magazine, auxiliary, elevating drive shaft, horizontal, long, universal pin $1 1/8" \times 1 1/8"$	30-32
F-2344 Magazine elevating crank drive shaft clutch shifting lever roll stud, r.h. and l.h., lock nut $10-32 \times 1/2"$	30-32	I-5443 Magazine, auxiliary, elevating drive shaft, horizontal, universal joint	30-32
F-2914 Magazine elevating crank drive shaft clutch shifting lever detent plunger spring	30-32	I-5658 Magazine elevating crank drive shaft clutch shifting lever link, lower section	30-32
F-5436 Magazine, auxiliary, elevating drive shaft, horizontal, gear ball bearing	30-32	I-5660 Magazine elevating crank drive shaft clutch shifting lever link, intermediate section	30-32
G-1587 Magazine elevating crank drive shaft clutch shifting lever stud	30-32	I-5661 Magazine elevating crank drive shaft clutch shifting lever link, intermediate section, pin	30-32
G-2797 Magazine elevating crank drive shaft clutch shifting lever stud	30	I-6071 Magazine elevating crank drive shaft clutch shifting lever link, upper section	30-32
I-1821 Magazine elevating crank drive shaft clutch shifting lever detent plunger spring retaining screw $1/2"-24 \times 3/8"$	30-32	I-6072 Magazine elevating crank drive shaft clutch shifting lever link, assembled	30-32
I-4522 Magazine, auxiliary, elevating drive shaft, horizontal, gear ball bearing retaining washer	30-32	I-7575 Magazine elevating crank drive shaft clutch shifting lever fulcrum stud	30
I-5068 Magazine, auxiliary, elevating drive shaft, horizontal, long bearing	30-32	I-7578 Magazine elevating crank drive shaft clutch shifting lever stud	30
I-5096 Magazine elevating crank drive shaft shifting clutch shifting lever	30-32	I-7589 Magazine elevating crank drive shaft clutch shifting lever link, lower section	30
I-5130 Magazine, auxiliary, elevating drive shaft, horizontal, ball bearing	30-32	I-7590 Magazine elevating crank drive shaft clutch shifting lever link, upper section	30
I-5134 Magazine, auxiliary, elevating drive shaft, horizontal, gear	30-32	I-7594 Magazine elevating shaft crank shaft extension clutch	30-32
I-5135 Magazine, auxiliary, elevating drive shaft, horizontal, gear ball bearing retainer	30-32	I-7614 Magazine, auxiliary, elevating drive shaft, horizontal, long pin and shaft support bracket	30
I-5136 Magazine, auxiliary, elevating drive shaft, horizontal, ball bearing spacing collar	30-32	I-7615 Magazine, auxiliary, elevating drive shaft, horizontal, lock pin and shaft support bracket	30
I-5138 Magazine elevating shaft crank shaft clutch key	30-32	I-7617 Magazine elevating crank drive shaft shifting clutch shifting lever	30
I-5138 Magazine, auxiliary, elevating drive shaft, horizontal, clutch key	30-32	I-7619 Magazine elevating crank drive shaft clutch shifting lever	30
I-5139 Magazine, auxiliary, elevating drive shaft, horizontal, ball bearing retaining washer	30-32	I-7690 Magazine elevating crank drive shaft clutch shifting lever link, assembled	30
I-5140 Magazine, auxiliary, elevating drive shaft, horizontal, lock nut	30-32	J-1404 Magazine elevating crank drive shaft clutch shifting lever fulcrum stud	30-32
I-5141 Magazine, auxiliary, elevating drive shaft, horizontal, clutch fulcrum stud	30-32		
I-5165 Magazine elevating crank drive shaft clutch shifting lever fulcrum stud	30-32	<u>Parts Not Illustrated</u>	
I-5166 Magazine elevating crank drive shaft clutch shifting lever detent link stud	30-32	I-5142 * Magazine, auxiliary, elevating drive shaft, horizontal, long, assembled	30-32
I-5167 Magazine elevating crank drive shaft clutch shift lever roll stud, r.h.	30-32	I-7682** Magazine, auxiliary, elevating drive shaft, horizontal, long, assembled	30
I-5168 Magazine elevating crank drive shaft clutch shifting lever roll stud, r.h.	30-32		
I-5169 Magazine elevating crank drive shaft clutch shifting lever roll stud, l.h.	30-32	*Used on Model 30, up to Serial No. 57099.	
I-5170 Magazine elevating crank drive shaft clutch shifting lever detent link	30-32	**Used on Model 30, from Serial No. 57100.	

Please Give Model and Serial Number When Ordering



E-922



D-979



C-93



I-5117 (30-32)



E-69



I-275



F-5436



I-5121



I-5190



E-738



C-335



I-5442



I-6388



I-5061



I-5119



I-5120



C-141



I-5440 (30-32)



B-222



I-5096



I-5080



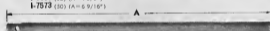
I-5192 (30) (A=6 1/16")

I-5551 (32) (A=4 3/8")

I-7573 (30) (A=6 9/16")



I-4920 (29-30-31-32)



I-4919 (29-30) (A=14 7/8")

I-5947 (31-32) (A=15 13/16")

I-7808 (30) (A=15 3/8")

I-8002 (31-32) (A=8 17/32")

I-8040 (30) (A=7 11/16")

I-8051 (30) (A=8 3/16")



I-4924



I-4923



I-4921



I-4922



I-5099



I-5116

I-4744 (UPPER)
I-5193 (LOWER)

I-5191

I-7684 (A=1 7/8")
I-6415 (A=2")

I-4924



I-5118



I-5132

I-7599 (A=1 7/8")
I-5131 (A=2")

Assembling Mechanism

Models 29-30-31-32

Magazine Frame, Elevating 125

B- 222 Magazine, auxiliary, elevating drive shaft gear housing dowel	30	I-5120 Magazine, auxiliary, elevating drive shaft, horizontal, gear ball bearing cap, rear	30 32
B- 222 Magazine, auxiliary, elevating drive shaft gear housing support dowel	30	I-5121 Magazine, auxiliary, elevating drive shaft, vertical, ball bearing cap	30 32
C- 93 Magazine, auxiliary, elevating drive shaft, vertical, washer nut 3/8"-16 x 1/2"	30 32	I-5131 Magazine, auxiliary, elevating drive shaft, horizontal, coupling, front	30 32
C- 141 Magazine, auxiliary, elevating drive shaft gear housing dowel	30 32	I-5132 Magazine, auxiliary, elevating drive shaft, horizontal, coupling adjusting screw 1/4"-20 x 1/2"	30 32
C- 535 Magazine, auxiliary, elevating drive shaft gear housing cover screw 10-32 x 3/8"	30 32	I-5190 Magazine, auxiliary, elevating drive shaft, horizontal, coupling screw 1/4"-20 x 1"	30 32
D- 979 Magazine, auxiliary, elevating drive shaft, vertical, ball bearing cap screw 10-32 x 3/8"	30 32	I-5191 Magazine, auxiliary, elevating drive shaft, horizontal, coupling, rear	30 32
D- 979 Magazine, auxiliary, elevating drive shaft, horizontal, gear ball bearing cap, front, screw 10-32 x 3/8"	30 32	I-5192 Magazine, auxiliary, elevating drive shaft, vertical, coupling, rear	30 32
D- 979 Magazine, auxiliary, elevating drive shaft, horizontal, gear ball bearing cap, rear, screw 10-32 x 3/8"	30 32	I-5193 Magazine, auxiliary, elevating drive shaft, vertical, universal joint, lower	30 32
E- 69 Magazine, auxiliary, elevating drive shaft, vertical, universal joint pin 1/4" x 15/16"	30 32	I-5440 Magazine, auxiliary, elevating drive shaft, horizontal, short	30 32
E- 69 Magazine elevating shaft connecting shaft universal joint pin 1/4" x 15/16"	29-30-31-32	I-5442 Magazine, auxiliary, elevating drive shaft, horizontal, short, universal pin .148" x 1"	30 32
E- 738 Magazine, auxiliary, elevating drive shaft gear housing screw 5/16"-18 x 7/8"	30 32	I-5847 Magazine elevating shaft connecting shaft, lower	31-32
E- 922 Magazine, auxiliary, elevating drive shaft gear housing screw	30	I-5851 Magazine, auxiliary, elevating shaft, vertical	32
F-5436 Magazine, auxiliary, elevating drive shaft, vertical, ball bearing	30 32	I-6388 Magazine, auxiliary, elevating drive shaft, vertical, washer	30 32
I- 275 Magazine, auxiliary, elevating drive shaft, vertical, universal joint, upper and lower, pin 7/32" x 1 1/8"	30 32	I-6415 Magazine, auxiliary, elevating drive shaft, horizontal, short, assembled	30 32
I-4744 Magazine, auxiliary, elevating drive shaft, vertical, universal joint, upper	30 32	I-7573 Magazine, auxiliary, elevating drive shaft, vertical	30
I-4919 Magazine elevating shaft connecting shaft, lower	29-30	I-7599 Magazine, auxiliary, elevating drive shaft, horizontal, coupling, front	30
I-4920 Magazine elevating shaft connecting shaft, upper	29-30-31-32	I-7684 Magazine, auxiliary, elevating drive shaft, horizontal, short, assembled	30
I-4921 Magazine elevating shaft connecting shaft coupling	29-30-31-32	I-7808 Magazine elevating shaft connecting shaft, lower	30
I-4922 Magazine elevating shaft connecting shaft coupling, locking	29-30-31-32	I-8002 Magazine elevating shaft connecting shaft, lower	31-32
I-4923 Magazine elevating shaft connecting shaft coupling locking nut	29-30-31-32	I-8040 Magazine elevating shaft connecting shaft, lower	29
I-4924 Magazine elevating shaft connecting shaft coupling pin 1/4" x 15/16"	29-30-31-32	I-8051 Magazine elevating shaft connecting shaft, lower	30
I-4924 Magazine, auxiliary, elevating drive shaft, horizontal, coupling rear pin 1/4" x 15/16"	30 32	<u>Parts Not Illustrated</u>	
I-4924 Magazine, auxiliary, elevating crank drive shaft, horizontal, coupling, front, pin 1/4" x 15/16"	30 32	I-4925 Magazine elevating shaft connecting shaft and coupling, assembled	29-30
I-5060 Magazine, auxiliary, elevating drive shaft gear housing	30 32	I-5194 Magazine, auxiliary, elevating drive shaft, vertical, assembled	30
I-5061 Magazine, auxiliary, elevating drive shaft gear housing cover	30 32	I-5850 Magazine elevating shaft connecting shaft and coupling, assembled	31-32
I-5098 Magazine, auxiliary, elevating drive shaft, vertical, gear	30 32	I-5952 Magazine, auxiliary, elevating drive shaft, vertical and universal joint, assembled	32
I-5099 Magazine, auxiliary, elevating drive shaft, horizontal, gear	30 32	I-7687 Magazine, auxiliary, elevating drive shaft, vertical, assembled	30
I-5116 Magazine, auxiliary, elevating drive shaft, horizontal, ball bearing	30 32	I-7809 Magazine elevating shaft connecting shaft and coupling, assembled	30
I-5117 Magazine, auxiliary, elevating drive shaft, vertical	30 32	I-8027 Magazine elevating shaft connecting shaft and coupling, assembled	31-32
I-5118 Magazine, auxiliary, elevating drive shaft, vertical, gear key	30 32	I-8052 Magazine elevating shaft connecting shaft and coupling, assembled	30
I-5119 Magazine, auxiliary, elevating drive shaft, horizontal, gear ball bearing cap, front	30 32	I-8060 Magazine elevating shaft connecting shaft and coupling, assembled	29

Please Give Model and Serial Number When Ordering



I-905



I-6739

I-6718
I-6719 (L.H. THREAD)

I-6721



E-219

I-5038 (LOWER)
I-5039 (UPPER)

I-8074



A-885



I-8073



I-8061



I-7997



D-1401



E-3816



D-902



BB-148



BB-41



D-86

BB-247
I-5040I-5037 (A=12.1/4")
I-7988 (A=6")

I-4928



BB-175



I-8862 (L.H.)



A-833



F-244



I-8861 (R.H.)



I-5819



F-723



D-3615



I-186



I-2233



I-5634



I-9072



I-9077



I-9078



I-8070

I-8068 (31-32)
I-8069 (29-30)

Assembling Mechanism

Models 5-29-30-31-32

Magazine Frame, Elevating 127

A- 833 Magazine elevating shaft bracket setting screw bracket hole cover	5	I-5039 Magazine elevating shaft bracket tie rod end, upper	29-30-31-32
A- 885 Magazine elevating shaft bracket support screw hole cover	5	I-5040 Magazine elevating shaft bracket tie rod end, upper, nut 5/8"-16 x 1 1/16"	29-30-31-32
BB- 41 Magazine elevating shaft bracket tie rod hinge pin, assembled	29-30-31-32	I-5634 Magazine elevating shaft bracket end cap, assembled	29-30-31-32
BB-148 Magazine elevating shaft bracket tie rod hinge pin screw 8-32 x 5/16"	29-30-31-32	I-5819 Magazine elevating shaft shim	29-30-31-32
BB-175 Magazine elevating shaft bracket tie rod bracket adjusting screw 3/8"-16 x 1 1/2"	29-30-31-32	I-6661 Magazine elevating shaft guard, r.h.	29-30-31-32
BB-247 Magazine elevating shaft bracket tie rod end, lower, lock nut 5/8"-11 x 1 1/16"	29-30-31-32	I-6662 Magazine elevating shaft guard, l.h.	29-30-31-32
D- 86 Magazine elevating shaft stop shoe filling piece screw 8-32 x 9/32"	29-30	I-6718 Magazine elevating shaft pawl lever rod turnbuckle lock nut, r.h. 1/4"-24 x 1/8"	29-30-31-32
D- 802 Magazine elevating shaft guard screw nut 8-32 x 5/16"	29-30-31-32	I-6719 Magazine elevating shaft pawl lever rod turnbuckle lock nut, l.h. (l.h. thread) 1/4"-24 x 1/8"	29-30-31-32
D-1401 Magazine elevating shaft guard screw 8-32 x 9/16"	29-30-31-32	I-6721 Magazine elevating shaft pawl lever rod stud	29-30-31-32
D-3615 Magazine elevating shaft bracket cover screw washer	29-30-31-32	I-6739 Magazine elevating shaft pawl lever rod, upper, end	29-30-31-32
E- 219 Magazine elevating shaft stop pawl operating lever screw 10-32 x 9/32"	29-30-31-32	I-7988 Magazine elevating shaft bracket tie rod	29-30-31-32
E-3816 Magazine elevating shaft guard screw lock washer	29-30-31-32	I-7997 Magazine elevating shaft bracket support horizontal adjusting screw 3/8"-16 x 3 1/4"	29-30-31-32
F- 244 Magazine elevating shaft bracket tie rod bracket screw 3/8"-16 x 1 1/2"	29-30-31-32	I-8061 Magazine elevating shaft bracket support bracket dowel	29-30-31-32
F- 723 Magazine elevating shaft bracket tie rod bracket dowel 1/4" x 1 3/16"	29-30-31-32	I-8068 Magazine elevating shaft bracket cover	31-32
I- 186 Magazine elevating shaft bracket tie rod bracket adjusting screw lock nut 3/8"-16 x 5/8"	29-30-31-32	I-8069 Magazine elevating shaft bracket cover	29-30
I- 186 Magazine elevating shaft bracket support horizontal adjusting screw nut 3/8"-18 x 1/4"	29-30-31-32	I-8070 Magazine elevating shaft bracket cover screw 1/4"-20 x 3/8"	29-30-31-32
I- 905 Magazine elevating shaft pawl lever rod lever pin .229" x 1 1/2"	29-30-31-32	I-8072 Magazine elevating shaft bracket cover end cap, assembled	29-30-31-32
I- 905 Magazine elevating shaft pawl lever pin .229" x 1 1/2"	29-30-31-32	I-8073 Magazine elevating shaft support	29-30-31-32
I-2233 Magazine elevating shaft universal joint	29	I-8074 Magazine elevating shaft nut	29-30-31-32
I-2233 Magazine elevating shaft universal joint, upper	29	I-8077 Magazine elevating shaft bracket cover side cap, assembled	29-30-31-32
I-4928 Magazine elevating shaft bracket tie rod bracket	29-30-31-32	I-8078 Magazine elevating shaft bracket cover screw wrench	29-30-31-32
I-5037 Magazine elevating shaft bracket tie rod	29-30-31-32		
I-5038 Magazine elevating shaft bracket tie rod end, lower	29-30-31-32		
		<u>Parts Not Illustrated</u>	
		I-6414 Magazine elevating shaft bracket tie rod, assembled	29-30-31-32
		I-6720 Magazine elevating shaft pawl lever rod, assembled	29-30-31-32
		I-6740 Magazine elevating shaft pawl lever rod, assembled	29-30-31-32
		I-7982 Magazine elevating shaft bracket support bracket	29-30-31-32
		I-8026 Magazine elevating shaft pawl lever rod, assembled	29-30-31-32

Please Give Model and Serial Number When Ordering



I-5542



I-5262



A-828



G-3999



J-511



G-702



I-5007



I-6068



I-3397



I-6941



I-4997



I-2693



I-5305



C-535

I-4927
I-6186

I-5530



C-297



J-463



I-2514



E-738



I-5762



E-90

I-6153 (A=3 3/4")
I-6154 (A=3 1/4")
I-6155 (A=7 3/4")

I-7998

I-5541
I-5887

I-2515



I-186



G-1135



I-7996



I-4988



B8-175



I-5819



I-4932



D-235



C-142



A-324



I-5849

Assembling Mechanism

Models 29-30-31-32

Magazine Frame (Elevating) 129

A- 324 Magazine elevating shaft bracket support dowel 3/8" x 2 1/8"	29-30-31-32	I-5262 Magazine elevating shaft balance spring drum instruction plate	29-30-31-32
A- 828 Magazine elevating shaft balance spring drum instruction plate screw	29-30-31-32	I-5305 Magazine elevating shaft spring drum detent safety cotter pin	29-30-31-32
8B-175 Magazine elevating shaft bracket setting screw 3/8"-16 x 1 1/2"	29-30-31-32	I-5530 Magazine elevating shaft stop	29-30-31-32
C- 142 Magazine elevating shaft rack screw 3/8"-16 x 3/4"	29-30-31-32	I-5541 Magazine elevating shaft	29-30
C- 297 Magazine elevating shaft bracket support adjusting screw nut 5/16"-18 x 1/2"	29-30	I-5542 Magazine elevating shaft spring drum shaft gear cover	29-30
C- 535 Magazine elevating shaft spring drum shaft gear cover screw 10-32 x 3/8"	29-30-31-32	I-5762 Magazine elevating shaft spring drum detent pin	29-30-31-32
D- 235 Magazine elevating shaft stop screw 3/8"-16 x 5/8"	29-30-31-32	I-5819 Magazine elevating shaft shim (specify .010" or .005")	29-30
E- 90 Magazine elevating shaft screw 3/8"-16 x 1 1/4"	29-30-31-32	I-5849 Magazine elevating shaft bracket support adjusting screw	31-32
E- 738 Magazine elevating shaft spring drum detent pin bracket screw 5/16"-18 x 7/8"	29-30-31-32	I-5887 Magazine elevating shaft	31-32
G- 702 Magazine elevating shaft spring drum detent pin knob pin 3/32" x 9/16"	29-30-31-32	I-6068 Magazine elevating shaft bracket setting screw bracket	31-32
G-1135 Magazine elevating shaft screw washer	29-30-31-32	I-6153 Magazine elevating shaft screw (when only three magazine frames are used)	31-32
G-3999 Magazine elevating shaft bracket setting screw bracket nut lock washer	31-32	I-6154 Magazine elevating shaft screw (when only two magazine frames are used)	31-32
I- 186 Magazine elevating shaft bracket support adjusting screw nut 3/8"-16 x 5/8"	29-30-31-32	I-6155 Magazine elevating shaft screw (when only one magazine frame is used)	31-32
I- 186 Magazine elevating shaft bracket setting screw lock nut 3/8"-16 x 5/8"	29-30-31-32	I-6186 Magazine elevating shaft spring drum detent pin bracket (used with I-6189, I-6190)	29-30-31-32
I- 186 Magazine elevating shaft bracket setting screw bracket nut 3/8"-16 x 5/8"	29-30-31-32	I-6941 Magazine elevating shaft bracket setting screw bracket	29-30
I-2514 Magazine elevating shaft bracket support screw 1"-8 x 1 3/8"	29-30-31-32	I-7996 Magazine elevating shaft bracket support adjusting screw 3/8"-16 x 2 1/2"	29-30-31-32
I-2515 Magazine elevating shaft bracket support screw nut 1"-8 x 1 9/16"	29-30-31-32	I-7998 Magazine elevating shaft	29-30-31-32
I-2693 Magazine elevating shaft bracket support pin	29-30-31-32	J- 463 Magazine elevating shaft bracket support pin nut 1/4"-24 x 3/8"	29-30-31-32
I-3397 Magazine elevating shaft spring drum detent pin knob	29-30-31-32	J- 511 Magazine elevating shaft spring drum shaft gear cover dowel 3/16" x 1/2"	29-30-31-32
I-4927 Magazine elevating shaft spring drum detent pin bracket	29-30-31-32		
I-4932 Magazine elevating shaft rack	29-30-31-32		
I-4988 Magazine elevating shaft bracket support adjusting screw 5/18"-18 x 1 3/4"	29-30		
I-4997 Magazine elevating shaft spring drum detent pin spring	29-30-31-32		
I-5007 Magazine elevating shaft pawl lever rod pin	29-30-31-32		
		<u>Parts Not Illustrated</u>	
		I-4910 Magazine elevating shaft bracket	29-30-31-32
		I-5533 Magazine elevating shaft bracket support	29-30
		I-5823 Magazine elevating shaft bracket support	31-32
		I-7984 Magazine elevating shaft bracket support	31-32
		I-8001 Magazine elevating shaft bracket	29-30-31-32
		I-8032 Magazine elevating shaft bracket support	29-30
		I-8067 Magazine elevating shaft bracket	29-30-31-32

Please Give Model and Serial Number When Ordering



I-4992 (29-30)
I-5851 (31-32)



I-4991



I-4995



B-209



I-5004



G-787



I-7990 (31-32)



I-4993
I-4994



I-6721
(31-32)



I-6714



I-7992



I-7995 (31-32)



I-7994 (31-32)



I-6715



F-235



I-7993 (31-32)



I-6718 (R.H.)
I-6719 (L.H.) (L.H. THREAD)



I-6717



I-6716



I-5003



I-5006



B-237



I-5005



E-935



I-7991



I-8006



I-8044 (29-30)



I-7989



I-6739



I-3207
(29-30)



I-8042
(29-30)



G-246



I-4981
I-4983



I-4984



F-6296



I-4986



D-99



I-5260
(31-32)



I-5001
(LONG)



E-9



B-594



I-4987



I-4982



I-4980



I-4971



I-4943



I-4931 (29-30)
I-5848 (31-32)



I-7988 (31-32)
I-8038 (29-30)

Assembling Mechanism

Models 29-30-31-32

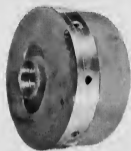
Magazine Frame, Elevating 131

B- 209 Magazine elevating shaft stop pawl set screw 1/4"-24 x 5/16"	29-30-31-32	I-5001 Magazine elevating shaft anti-friction roll dust cover, long, assembled	29-30-31-32
B- 209 Magazine elevating shaft stop pawl lever set screw 1/4"-24 x 5/16"	29-30-31-32	I-5003 Magazine elevating shaft stop pawl lever rod	29-30-31-32
B- 237 Magazine elevating shaft stop pawl lever rod lock nut 1/4"-24 x 1/2"	29-30-31-32	I-5004 Magazine elevating shaft stop pawl lever rod spring shoe	29-30-31-32
B- 584 Magazine elevating shaft pawl lever rod pin cotter pin	29-30-31-32	I-5005 Magazine elevating shaft stop pawl lever rod spring sleeve	29-30-31-32
D- 99 Magazine elevating shaft anti-friction roll pin, top set screw 8-32 x 3/8"	29-30-31-32	I-5006 Magazine elevating shaft stop pawl lever rod spring sleeve lock nut	29-30-31-32
D- 99 Magazine elevating shaft anti-friction roll pin set screw 8-32 x 3/8"	29-30-31-32	I-5260 Magazine elevating shaft anti-friction roll dust cover, short, assembled	29-30-31-32
E- 9 Magazine elevating shaft stop shoe screw, long 1/4"-24 x 7/8"	29-30-31-32	I-5848 Magazine elevating shaft stop shoe	31-32
E- 935 Magazine elevating shaft stop pawl lever rod spring	29-30-31-32	I-5851 Magazine elevating shaft stop pawl	31-32
F- 235 Magazine elevating shaft stop pawl link spring hook	29-30-31-32	I-6714 Magazine elevating shaft stop pawl lever	29-30-31-32
F-6296 Magazine elevating shaft anti-friction roll eccentric pin set screw wrench	29-30-31-32	I-6715 Magazine elevating shaft stop pawl lever rod	29-30-31-32
G- 246 Magazine elevating shaft stop shoe dowel 3/16" x 15/32"	29-30-31-32	I-6716 Magazine elevating shaft stop pawl lever rod, upper, end	29-30-31-32
G- 787 Magazine elevating shaft stop pawl stop screw	29-30-31-32	I-6717 Magazine elevating shaft pawl lever rod turnbuckle	29-30-31-32
I-3207 Magazine elevating shaft stop shoe screw, short 1/4"-24 x 5/8"	29-30	I-6717 Magazine elevating shaft stop pawl link turnbuckle	29-30-31-32
I-4931 Magazine elevating shaft stop shoe	29-30	I-6718 Magazine elevating shaft stop pawl link turnbuckle lock nut, r.h.	29-30-31-32
I-4943 Magazine elevating shaft spring drum anti-friction roll, assembled	29-30-31-32	I-6719 Magazine elevating shaft stop pawl link turnbuckle lock nut, l.h.	29-30-31-32
I-4971 Magazine elevating shaft worm gear anti-friction roll, assembled	29-30-31-32	I-6721 Magazine elevating shaft stop pawl live spring stud	31-32
I-4980 Magazine elevating shaft anti-friction roll, assembled	29-30-31-32	I-6739 Magazine elevating shaft stop pawl lever rod, upper, end	29-30-31-32
I-4981 Magazine elevating shaft anti-friction roll pin, bottom, upper	29-30-31-32	I-7986 Magazine elevating shaft stop shoe	31-32
I-4982 Magazine elevating shaft anti-friction roll race, bottom, upper	29-30-31-32	I-7989 Magazine elevating shaft stop pawl link	29-30-31-32
I-4982 Magazine elevating shaft anti-friction roll race, top	29-30-31-32	I-7990 Magazine elevating shaft stop pawl guide	31-32
I-4983 Magazine elevating shaft anti-friction roll pin, top	29-30-31-32	I-7991 Magazine elevating shaft stop pawl	29-30-31-32
I-4984 Magazine elevating shaft anti-friction roll race, side	29-30-31-32	I-7992 Magazine elevating shaft stop pawl operating lever	29-30-31-32
I-4984 Magazine elevating shaft anti-friction roll race, bottom, intermediate and lower	29-30-31-32	I-7993 Magazine elevating shaft stop pawl link spring	31-32
I-4985 Magazine elevating shaft anti-friction roll, side, eccentric pin	29-30-31-32	I-7994 Magazine elevating shaft stop pawl link adjusting stud	31-32
I-4986 Magazine elevating shaft anti-friction roll, side, eccentric pin set screw 5/16"-18 x 7/16"	29-30-31-32	I-7995 Magazine elevating shaft stop pawl link adjusting stud nut	31-32
I-4987 Magazine elevating shaft anti-friction roll, bottom, lower and intermediate, eccentric pin	29-30-31-32	I-8006 Magazine elevating shaft stop pawl link, upper, end	29-30-31-32
I-4991 Magazine elevating shaft stop pawl shaft	29-30-31-32	I-8038 Magazine elevating shaft stop shoe	29-30
I-4992 Magazine elevating shaft stop pawl	29-30	I-8042 Magazine elevating shaft stop shoe filling piece	29-30
I-4993 Magazine elevating shaft stop pawl key	29-30-31-32	I-8044 Magazine elevating shaft stop pawl link spring	29-30
I-4994 Magazine elevating shaft stop pawl lever key	29-30-31-32		
I-4995 Magazine elevating shaft stop pawl lever	29-30-31-32		

Parts Not Illustrated

I-5637 Magazine elevating shaft and bracket, assembled (Up to Serial No. 61941)	29-30
I-5890 Magazine elevating shaft and bracket, assembled (Up to Serial No. 61447)	31-32
I-8024 Magazine elevating shaft and bracket, assembled (From Serial No. 61448)	31-32
I-8062 Magazine elevating shaft and bracket, assembled (From Serial No. 61942)	29-30

Please Give Model and Serial Number When Ordering

I-5635 (R.H.)
I-5636 (L.H.)

I-5867 (31-32)



I-4936 (29-30)



I-4953



I-4952



I-4935



I-5620 (R.H. AND L.H.)



I-5868



H-518



I-4938



I-4939



I-4945



I-4937

I-6189 (R.H.)
I-6190 (L.H.)

I-4959



I-4973



I-4965

I-4964
(FRONT)I-4967 (29-30)
I-5866 (31-32)

C-276



I-4934



G-304



D-2432



E-224



I-4956



I-4962



I-4960

I-4963
(BACK)

C-535



D-168



E-90



I-7983



I-5043



C-209



A-114



I-5208



I-1072



I-4933



I-4966



I-4929

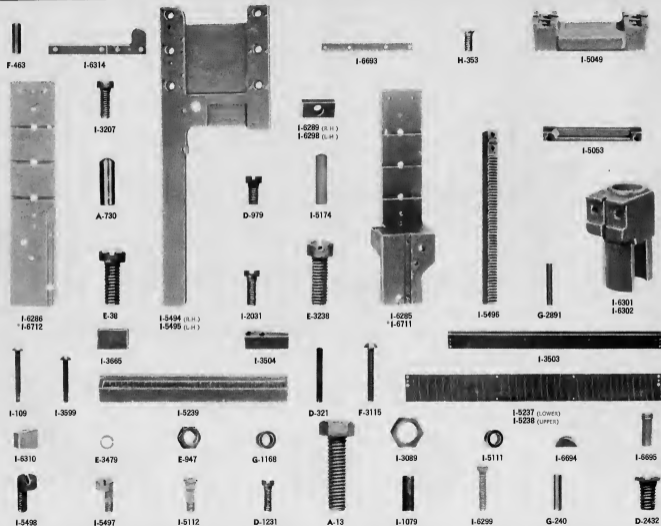
Assembling Mechanism

Models 29-30-31-32

Magazine Frame, Elevating 133

A- 114 Magazine elevating shaft worm gear housing dowel 1/4" x 13/16"	29-30-31-32	I-4945 Magazine elevating shaft spring drum, l.h., roller bearing race	29-30-31-32
BB-270 Magazine elevating shaft spring drum worm gear nut 5/8"-20 x 1 1/16"	29-30-31-32	I-4952 Magazine elevating shaft spring drum, r.h., roller bearing separating sleeve	29-30-31-32
C- 209 Magazine elevating shaft worm universal joint pin	29-30-31-32	I-4953 Magazine elevating shaft spring drum knock out hole plug screw, r.h. and l.h. 3/8"-32 x 1/8"	29-30-31-32
C- 276 Magazine elevating shaft spring drum shaft worm gear key	29-30-31-32	I-4954 Magazine elevating shaft spring cover oil hole plug, r.h. and l.h.	29-30-31-32
C- 535 Magazine elevating shaft worm gear housing cover screw 10-32 x 3/8"	29-30-31-32	I-4956 Magazine elevating shaft spring hub key	29-30-31-32
C- 842 Magazine elevating shaft spring drum, l.h., retaining washer screw 3/8"-18 x 19/32"	29-30-31-32	I-4959 Magazine elevating shaft worm gear housing	29-30-31-32
D- 168 Magazine elevating shaft worm bearing packing retaining washer screw 4-48 x 1/4"	29-30-31-32	I-4960 Magazine elevating shaft worm gear housing roller bearing race	29-30-31-32
D-2432 Magazine elevating shaft spring drum shaft worm gear screw 3/8"-16 x 19/32"	29-30-31-32	I-4961 Magazine elevating shaft worm ball bearing	29-30-31-32
D-4877 Magazine elevating shaft gear and spring drum shaft bushing	29-30-31-32	I-4962 Magazine elevating shaft worm	29-30-31-32
E- 90 Magazine elevating shaft worm gear housing tie rod bracket screw 3/8"-16 x 1 1/4"	29-30-31-32	I-4963 Magazine elevating shaft worm bearing cover, back	29-30-31-32
E- 224 Magazine elevating shaft worm gear housing screw 5/8"-18 x 11/18"	29-30-31-32	I-4964 Magazine elevating shaft worm bearing cover, front	29-30-31-32
G- 304 Magazine elevating shaft worm bearing cover, front, screw 1/4"-24 x 1/2"	29-30-31-32	I-4965 Magazine elevating shaft worm bearing packing	29-30-31-32
G- 304 Magazine elevating shaft worm bearing cover, back, screw	29-30-31-32	I-4966 Magazine elevating shaft worm bearing packing retaining washer	29-30-31-32
H- 518 Magazine elevating shaft spring drum cover, r.h., screw 5/16"-18 x 3/4"	29-30-31-32	I-4967 Magazine elevating shaft worm gear housing cover	29-30
I-1072 Magazine elevating shaft spring drum shaft worm gear dowel 1/4" x 3/4"	29-30-31-32	I-4972 Magazine elevating shaft spring drum, l.h., retaining washer	29-30-31-32
I-4929 Magazine elevating shaft worm gear housing and tie rod bracket	29-30-31-32	I-4973 Magazine elevating shaft spring drum shaft worm gear	29-30-31-32
I-4933 Magazine elevating spring drum shaft ball bearing	29-30-31-32	I-4974 Magazine elevating shaft spring drum shaft worm gear bushing	29-30-31-32
I-4934 Magazine elevating spring drum shaft gear key	29-30-31-32	I-5043 Magazine elevating shaft spring drum winding handle	29-30-31-32
I-4935 Magazine elevating shaft spring drum shaft gear	29-30-31-32	I-5208 Magazine elevating shaft worm bearing cover, back, screw 1/4"-24 x 1/2"	29-30-31-32
I-4936 Magazine elevating shaft gear and spring drum shaft	29-30	I-5620 Magazine elevating shaft spring hub, r.h. and l.h.	29-30-31-32
I-4937 Magazine elevating shaft gear and spring drum shaft ball bearing key	29-30-31-32	I-5635 Magazine elevating shaft spring drum, r.h., assembled	29-30-31-32
I-4938 Magazine elevating shaft gear and spring drum shaft ball bearing lock washer	29-30-31-32	I-5636 Magazine elevating shaft spring drum, l.h., assembled	29-30-31-32
I-4939 Magazine elevating shaft gear and spring drum shaft ball bearing lock nut	29-30-31-32	I-5866 Magazine elevating shaft worm gear housing cover	31-32
		I-5867 Magazine elevating shaft gear and spring drum shaft	31-32
		I-5868 Magazine elevating shaft gear and spring drum shaft bushing	29-30-31-32
		I-6189 Magazine elevating shaft spring drum, r.h., assembled	29-30-31-32
		I-6190 Magazine elevating shaft spring drum, l.h., assembled	29-30-31-32
		I-7983 Magazine elevating shaft worm gear housing and tie rod bracket	29-30-31-32

Please Give Model and Serial Number When Ordering



Assembling Mechanism

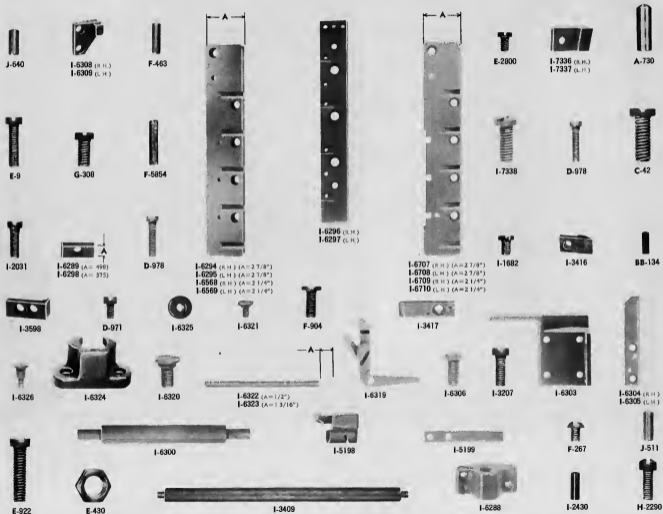
Models 30-32

Magazine Frame, Auxiliary 135

A- 13 Magazine, auxiliary, frame locating screw 1/2"-12 x 1 3/4"	30	I-5494 Magazine, auxiliary, frame side plate, r.h.	30-32
A- 730 Magazine, auxiliary, frame side plate, l.h., dowel 5/16" x 7/8"	30-32	I-5495 Magazine, auxiliary, frame side plate, l.h.	30-32
A- 730 Magazine, auxiliary, frame dowel 5/16" x 7/8"	30-32	I-5496 Magazine, auxiliary, frame elevating pinion rack	30-32
D- 321 Magazine, auxiliary, entrance extension side bar dowel	30	I-5497 Magazine, auxiliary, locating stud, r.h.	30-32
D- 979 Magazine, auxiliary, frame side plate, l.h., key screw	30-32	I-5498 Magazine, auxiliary, locating stud, l.h.	30-32
D-1231 Magazine, auxiliary, locating block screw	30-32	I-6285 Magazine, auxiliary, frame side plate, r.h.	30-32
D-2432 Magazine, auxiliary, frame screw 3/8"-18 x 1 9/32"	30-32	I-6286 Magazine, auxiliary, frame side plate, l.h.	30-32
E- 38 Magazine, auxiliary, frame side plate, l.h., screw	30	I-6289 Magazine, auxiliary, frame side plate, r.h., key	30-32
E- 947 Magazine, auxiliary, locating roller eccentric stud		I-6298 Magazine, auxiliary, frame side plate, l.h., key	30-32
lock nut 1/4"-32 x 3/8"	30-32	I-6299 Magazine, auxiliary, frame screw 3/8"-18 x 1 1/2"	30-32
E- 947 Magazine, auxiliary, locating stud, l.h., lock nut 1/4"-32 x 3/8"	30-32	I-6301 Magazine, auxiliary, frame elevating pinion rack	
E- 947 Magazine, auxiliary, locating stud, r.h., lock nut 1/4"-32 x 3/8"	30-32	bracket, back, l.h.	30-32
E-3238 Magazine, auxiliary, frame side plate, r.h., screw	30-32	I-6301 Magazine, auxiliary, frame elevating pinion rack	
E-3479 Magazine, auxiliary, locating stud, l.h., lock washer	30-32	bracket, front, r.h.	30-32
F- 463 Magazine, auxiliary, frame side rail dowel	30-32	I-6302 Magazine, auxiliary, frame elevating pinion rack	
F-3115 Magazine, auxiliary, entrance extension side bar screw	30	bracket, back, r.h.	30-32
G- 240 Magazine, auxiliary, frame dowel 3/16" x 3/4"	30-32	I-6302 Magazine, auxiliary, frame elevating pinion rack	
G-1168 Magazine, auxiliary, locating roller eccentric stud washer	30-32	bracket, front, l.h.	30-32
G-1168 Magazine, auxiliary, locating stud, r.h., washer	30-32	I-6310 Magazine, auxiliary, locating block	30-32
G-2891 Magazine, auxiliary, frame elevating pinion rack tie bar		I-6314 Magazine, auxiliary, frame side rail	30-32
dowel 1/8" x 7/8"	30-32	I-6693 Magazine, auxiliary, frame retaining strip	30-32
H- 353 Magazine, auxiliary, frame retaining strip screw	30-32	I-6694 Magazine, auxiliary, frame key	30-32
I- 109 Magazine, auxiliary, entrance extension binding screw	30	I-6695 Magazine, auxiliary, frame, upper, dowel pin	30-32
I-1079 Magazine, auxiliary, frame dowel 5/16" x 3/4"	30-32	I-6711 Magazine, auxiliary, frame side plate, r.h.	30-32
I-2031 Magazine, auxiliary, frame side plate, front, key screw,		I-6712 Magazine, auxiliary, frame side plate, l.h.	30-32
r.h and l.h.	30-32		
I-3089 Magazine, auxiliary, frame locating screw nut 1/2"-12 x 5/8"	30		
I-3207 Magazine, auxiliary, frame side rail screw	30-32		
I-3503 Magazine, auxiliary, entrance extension bar	30		
I-3504 Magazine, auxiliary, entrance extension side bar	30		
I-3599 Magazine, auxiliary, entrance extension binding			
screw (7/8" long)	30		
I-3665 Magazine, auxiliary, entrance extension			
partition (1 3/16" long)	30		
I-5049 Magazine, auxiliary, frame elevating pinion rack bracket	30-32		
I-5053 Magazine, auxiliary, frame elevating pinion rack tie bar	30-32	I-3404 Magazine, auxiliary, frame, upper (30) to Serial No. 53427	
I-5111 Magazine, auxiliary, locating roller	30-32	(32) to Memo No. 20454	30-32
I-5112 Magazine, auxiliary, locating roller eccentric stud	30-32	I-3405 Magazine, auxiliary, frame, lower, upper, center and lower	
I-5174 Magazine, auxiliary, frame side plate, r.h., dowel	30-32	center (30) to Serial No. 53427 (32) to Memo No. 20454	30-32
I-5237 Magazine, auxiliary, entrance extension plate, lower	30	I-5499 Magazine, auxiliary, frame, assembled (30) to Serial No. 53427	
I-5238 Magazine, auxiliary, entrance extension plate, upper	30	(32) to Memo No. 20454	30-32
I-5239 Magazine, auxiliary, entrance extension, assembled	30	I-6284 Magazine, auxiliary, frame, lower (to Serial No. 53427)	30
		I-6287 Magazine, auxiliary, frame, lower center, upper center and	
		upper (from Serial No. 53428)	30
		I-6330 Magazine, auxiliary, frame, assembled (from Serial No. 53428)	30
		I-6566 Magazine, auxiliary, frame, lower center, upper center and	
		upper (from Memo No. 20454)	32
		I-6567 Magazine, auxiliary, frame, lower (from Memo No. 20454)	32
		I-6570 Magazine, auxiliary, frame, assembled (from Memo No. 20454)	32

Parts Not Illustrated

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 30-32

Magazine Frame, Auxiliary 137

A- 730 Magazine, auxiliary, guide rail, back, dowel	30-32	I-6294 Magazine, auxiliary, guide rail, back, r.h.	30
8B-134 Magazine, auxiliary, guide block, dowel 1/8" x 3/8"	30-32	I-6295 Magazine, auxiliary, guide rail, back, l.h.	30
8B-134 Magazine, auxiliary, lower and intermediate, guide block, dowel 1/8" x 3/8"	30-32	I-6296 Magazine, auxiliary, guide rail, front, r.h.	30-32
C- 42 Magazine, auxiliary, guide rail, back, screw	30-32	I-6297 Magazine, auxiliary, guide rail, front, l.h.	30-32
D- 971 Magazine, auxiliary, stop screw 6-32 x 1/4"	30-32	I-6298 Magazine, auxiliary, guide rail, back, key	30-32
D- 978 Magazine, auxiliary, guide rail, back, key screw	30-32	I-6300 Magazine, auxiliary, elevating pinion rack bracket shaft	30-32
E- 9 Magazine, auxiliary, guide rail, front, screw	30-32	I-6303 Magazine, auxiliary, stop lug, r.h., lower	30-32
E- 9 Magazine, auxiliary, elevating, pinion, rack tie bar screw 1/4"-24 x 7/8"	30-32	I-6304 Magazine, auxiliary, stop lug, r.h., upper and intermediate	30-32
E- 430 Magazine, auxiliary, frame elevating pinion rack bracket shaft nut 1/2"-12 x 11/16"	30-32	I-6305 Magazine, auxiliary, stop lug, l.h.	30-32
E- 922 Magazine, auxiliary, frame elevating pinion rack screw 5/16"-18 x 1 1/8"	30-32	I-6306 Magazine, auxiliary, stop lug, l.h., screw	30-32
E-2800 Magazine, auxiliary, locating, sliding, block, upper, stop screw	30	I-6306 Magazine, auxiliary, stop lug, r.h., upper and intermediate, screw	30-32
F- 267 Magazine, auxiliary, lock spring screw 8-48 x 3/18"	30-32	I-6308 Magazine, auxiliary, removing position locating block, r.h.	30-32
F- 463 Magazine, auxiliary, removing position locating block dowel	30-32	I-6309 Magazine, auxiliary, removing position locating block, l.h.	30-32
F- 904 Magazine, auxiliary, guide block screw 1/4"-24 x 9/18"	30-32	I-6319 Magazine, auxiliary, safety latch, assembled	30-32
F-5854 Magazine, auxiliary, guide rail, front, dowel	30-32	I-6320 Magazine, auxiliary, safety latch fulcrum stud	30-32
G- 308 Magazine, auxiliary, removing position locating block screw	30-32	I-6321 Magazine, auxiliary, safety latch spring stud	30-32
H-2290 Magazine, auxiliary, elevating pinion, rack shaft bearing screw	30-32	I-6322 Magazine, auxiliary, safety latch spring, upper and intermediate	30-32
I-1682 Magazine, auxiliary, upper guide block screw 10-32 x 1/4"	30-32	I-6323 Magazine, auxiliary, safety latch spring, lower	30-32
I-2031 Magazine, auxiliary, guide rail, front, key screw, r.h. and l.h.	30-32	I-6324 Magazine, auxiliary, safety stop roll bracket	30-32
I-2430 Magazine, auxiliary, elevating pinion rack shaft bearing dowel	30-32	I-6325 Magazine, auxiliary, safety stop roll	30-32
I-3207 Magazine, auxiliary, stop lug, r.h., lower, screw	30-32	I-6326 Magazine, auxiliary, safety stop roll stud	30-32
I-3207 Magazine, auxiliary, safety stop roll bracket screw	30-32	I-6568 Magazine, auxiliary, guide rail, back, r.h.	32
I-3409 Magazine, auxiliary, elevating pinion, rack bracket shaft	30-32	I-6569 Magazine, auxiliary, guide rail, back, l.h.	32
I-3416 Magazine, auxiliary, upper, guide block	30-32	I-6707 Magazine, auxiliary, guide rail, back, r.h.	30
I-3417 Magazine, auxiliary, lower and intermediate, guide block	30-32	I-6708 Magazine, auxiliary, guide rail, back, l.h.	30
I-3598 Magazine, auxiliary, stop	30-32	I-6709 Magazine, auxiliary, guide rail, back, r.h.	32
I-5198 Magazine, auxiliary, lock, assembled	30-32	I-6710 Magazine, auxiliary, guide rail, back, l.h.	32
I-5199 Magazine, auxiliary, lock spring	30-32	I-7336 Magazine, auxiliary, locating sliding, block, upper, r.h., stop	30
I-6288 Magazine, auxiliary, elevating pinion rack shaft bearing	30-32	I-7337 Magazine, auxiliary, locating, sliding, block, upper, l.h., stop	30
I-6289 Magazine, auxiliary, guide rail, front, r.h. and l.h., key	30-32	I-7338 Magazine, auxiliary, guide rail, back, screw	30
		J- 511 Magazine, auxiliary, stop lug, l.h., dowel	30-32
		J- 511 Magazine, auxiliary, stop lug, r.h., upper and intermediate, dowel	30-32
		J- 640 Magazine, auxiliary, removing position locating block dowel	30-32

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 30-32

Magazine Frame, Auxiliary 139

A- 13	Magazine, auxiliary, frame supporting frame stop screw 1/2"-12 x 1 3/4"	30-32	I-2795	Magazine, auxiliary, frame supporting frame adjusting screw	30-32
A- 56	Magazine, auxiliary, frame supporting frame shaft set screw 1/4"-24 x 5/8"	30-32	I-3089	Magazine, auxiliary, frame supporting frame side adjusting screw nut 1/2"-12 x 5/8"	30
A- 120	Magazine, auxiliary, entrance frame arm, r.h., dowel 1/4" x 9/16"	30	I-3089	Magazine, auxiliary, frame supporting frame stop screw nut 1/2"-12 x 5/8"	30-32
A- 120	Magazine, auxiliary, entrance frame arm, l.h., dowel 1/4" x 9/16"	30	I-3089	Magazine, auxiliary, frame supporting frame side adjusting screw, upper, lock nut 1/2"-12 x 5/8"	30-32
A- 188	Magazine, auxiliary, frame supporting frame dowel 3/8" x 1 1/8"	30-32	I-3220	Magazine, auxiliary, frame supporting frame side adjusting screw, upper	30
A- 685	Magazine, auxiliary, frame supporting frame side adjusting screw oil hole cover	32	I-3425	Magazine, auxiliary, frame supporting frame shaft screw, upper	30-32
C- 297	Magazine, auxiliary, frame supporting frame adjusting screw lock nut 5/16" x 1/2"	30-32	I-3507	Magazine, auxiliary, entrance frame arm, r.h.	30
D- 30	Magazine, auxiliary, elevating pinion rack guide roll pin set screw 8-32 x .393"	30-32	I-3508	Magazine, auxiliary, entrance frame arm, l.h.	30
D- 31	Magazine, auxiliary, frame supporting frame side adjusting screw bracket, r.h. and l.h., screw 3/8"-16 x 3/4"	32	I-3511	Magazine, auxiliary, entrance frame locating piece, r.h.	30
D- 34	Magazine, auxiliary, elevating pinion and rack guard, upper, screw 8-32 x 1/2"	30-32	I-3512	Magazine, auxiliary, entrance frame locating piece, l.h.	30
D- 341	Magazine, auxiliary, elevating pinion and rack guard, lower, screw 14-24 x 5/8"	30-32	I-3694	Magazine, auxiliary, entrance frame hinge pin	30
D- 401	Magazine, auxiliary, entrance extension dowel 1/8" x 7/16"	30	I-4782	Magazine, auxiliary, frame supporting frame steady plate	30-32
D- 401	Magazine, auxiliary, entrance frame locating piece, l.h., dowel 1/8" x 7/16"	30	I-4783	Magazine, auxiliary, frame supporting frame steady plate screw 14-24 x 5/8"	30-32
D- 401	Magazine, auxiliary, entrance frame locating piece, r.h., dowel 1/8" x 7/16"	30	I-5072	Magazine, auxiliary, elevating pinion rack guide roll pin	30-32
E- 90	Magazine, auxiliary, frame supporting frame screw 3/8-16 x 1 1/4"	30-32	I-5509	Magazine, auxiliary, frame supporting frame side adjusting screw, lower, nut	30-32
E-1522	Magazine, auxiliary, entrance frame arm, r.h., screw 5/16"-24 x 1/2"	30	I-5513	Magazine, auxiliary, elevating pinion rack guide roll pin	30-32
E-1522	Magazine, auxiliary, entrance frame arm, l.h., screw 5/16"-24 x 1/2"	30	I-5521	Magazine, auxiliary, entrance frame locating piece, r.h., screw 1/4"-24 x 7/16"	30
I-3238	Magazine, auxiliary, frame supporting frame screw 3/8"-16 x 1"	30-32	I-5521	Magazine, auxiliary, entrance frame locating piece, l.h., screw 1/4"-24 x 7/16"	30
F- 31	Magazine, auxiliary, frame supporting frame adjusting screw set screw 1/4"-20 x 1/2"	30-32	I-5536	Magazine, auxiliary, frame supporting frame side adjusting screw, lower 1/2"-12 x 1 5/8"	30-32
F- 370	Magazine, auxiliary, frame supporting frame adjusting screw set screw 1/4"-20 x 3/4"	30-32	I-5953	Magazine, auxiliary, frame supporting frame side adjusting screw bracket, r.h.	32
G- 156	Magazine, auxiliary, entrance frame hinge pin set screw 8-32 x 5/16"	30	I-5954	Magazine, auxiliary, frame supporting frame side adjusting screw bracket, l.h.	32
G- 809	Magazine, auxiliary, elevating pinion rack guide roll pin bracket screw 5/16"-18 x 7/8"	30	I-6255	Magazine, auxiliary, elevating pinion connecting shaft bearing block	30-32
G-2891	Magazine, auxiliary, frame elevating pinion rack tie bar dowel 1/8" x 7/8"	30-32	I-6256	Magazine, auxiliary, elevating pinion connecting shaft bearing block screw 5/16"-18 x 1"	30-32
I- 5	Magazine, auxiliary, frame supporting frame lifting screw 3/8"-16 x 1 3/4"	30-32	I-6257	Magazine, auxiliary, elevating pinion rack guide roll pin bracket	30
I- 186	Magazine, auxiliary, frame supporting frame lifting screw nut 3/8"-16 x 5/8"	30-32	I-6260	Magazine, auxiliary, elevating pinion connecting shaft	30-32
I-1531	Magazine, auxiliary, elevating pinion rack guide roll pin bracket dowel 5/16" x 13/16"	30	I-6262	Magazine, auxiliary, elevating pinion connecting shaft bearing retainer	30
I-1873	Magazine, auxiliary, frame supporting frame adjusting screw 5/16"-18 x 1 3/8"	30-32	I-6281	Magazine, auxiliary, elevating pinion and rack guard, lower	30-32
I-1930	Magazine, auxiliary, frame supporting frame steady plate stud	30-32	I-6283	Magazine, auxiliary, elevating pinion and rack guard, upper	30-32
			J- 375	Magazine, auxiliary, entrance extension screw 8-32 x 1 3/8"	30
				<u>Parts Not Illustrated</u>	
			I-5500	Magazine, auxiliary, entrance frame	30
			I-5591	Magazine, auxiliary, frame supporting frame	30
			I-5920	Magazine, auxiliary, frame supporting frame	32
			I-6254	Magazine, auxiliary, frame supporting frame (from serial No. 52428)	30
			I-6580	Magazine, auxiliary, frame supporting frame (from serial No. 53617)	32

Please Give Model and Serial Number When Ordering



I-131



E-3238



A-876



I-631



A-877



I-6367



I-6366



G-152



I-3088



I-6350



I-6308



A-115



G-3900



F-4016



I-6363



I-6348



G-274



I-6231



I-6333



E-90



I-5504 (L.H.)



E-738



I-5510



I-5503 (R.H.)



I-6332



I-6157



I-5505



I-5506



I-3371



A-56



F-960



C-93



I-5509



I-6597



I-3220



I-186



I-5508



I-6382



I-6381



I-5507



I-6349



I-5516



I-5515

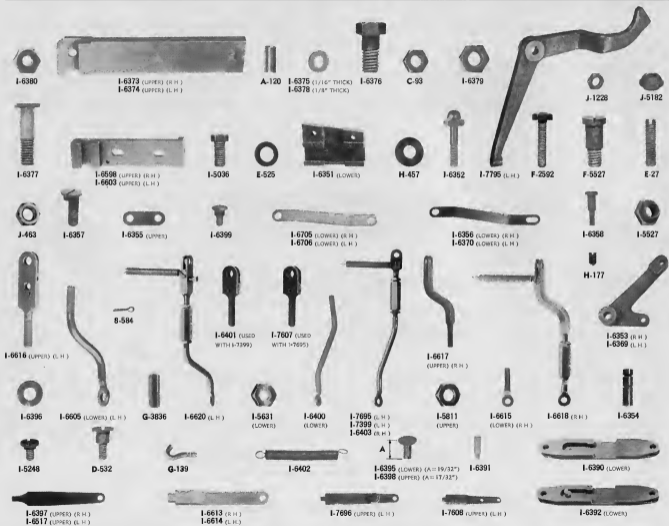
Assembling Mechanism

Models 30-32

Magazine Frame, Auxiliary 141

A- 56 Magazine, auxiliary, frame guide roll, upper, stud set screw 1/4"-24 x 5/8"	30	I-5507 Magazine, auxiliary, frame guide roll	30-32
A- 115 Magazine, auxiliary, frame guide bracket, l.h., dowel 7/8" x 3/8"	30-32	I-5508 Magazine, auxiliary, frame guide roll stud, front, upper, nut	30-32
A- 115 Magazine, auxiliary, frame guide bracket, l.h., support dowel 7/8" x 3/8"	30	I-5508 Magazine, auxiliary, frame guide roll stud, back, upper, nut	30-32
A- 876 Magazine, auxiliary, frame guide bracket, r.h., screw, short 1/2"-12 x 1 3/18"	30-32	I-5508 Magazine, auxiliary, frame side adjusting screw lock nut	30-32
A- 877 Magazine, auxiliary, frame guide bracket, r.h., screw washer	30-32	I-5508 Magazine, auxiliary, side adjusting screw, upper, nut	32
C- 93 Magazine, auxiliary, frame guide roll stud front, lower, l.h., nut 3/8"-18 x 1/2"	30-32	I-5509 Magazine, auxiliary, frame guide roll stud, upper, nut	30-32
D- 131 Magazine, auxiliary, frame guide bracket, l.h., screw, upper 3/8"-18 x 1 1/8"	30-32	I-5509 Magazine, auxiliary, frame side adjusting screw nut	30-32
E- 90 Magazine, auxiliary, frame guide bracket, l.h., screw, lower, long 3/8"-16 x 1 1/4"	30-32	I-5510 Magazine, auxiliary, frame guide roll bracket screw washer	30-32
E- 738 Magazine, auxiliary, frame guide roll bracket, r.h. and l.h., screw 5/16"-18 x 7/8"	30-32	I-5515 Magazine, auxiliary, frame guide roll stud, lower, l.h.	30-32
E-3238 Magazine, auxiliary, frame guide bracket, l.h., screw, lower 3/8"-18 x 1"	30-32	I-5516 Magazine, auxiliary, frame guide roll stud, front, lower, l.h.	30-32
F- 860 Magazine, auxiliary, frame guide roll, upper, stud set screw lock screw 1/4"-24 x 5/16"	30	I-6157 Magazine, auxiliary, side adjusting screw, l.h.	32
F-4016 Magazine, auxiliary, safety latch operating slide washer	30-32	I-6231 Magazine, auxiliary, frame guide side supporting roller	30
G- 152 Magazine, auxiliary, frame guide bracket, l.h., support screw 3/8"-18 x 1"	30	I-6332 Magazine, auxiliary, frame guide side supporting roller stud	30
G- 274 Magazine, auxiliary, safety latch operating slide cam screw 8-32 x 3/8"	30-32	I-6333 Magazine, auxiliary, frame guide side supporting roller stud set screw 8-32 x 11/18"	30
G-3800 Magazine, auxiliary, safety latch operating slide screw	30-32	I-6334 Magazine, auxiliary, frame guide side supporting roller stud set screw lock nut	30
I- 186 Magazine, auxiliary, frame guide roll stud, lower, r.h., nut 3/8"-16 x 5/8"	30-32	I-6348 Magazine, auxiliary, safety latch operating slide cam	30-32
I- 186 Magazine, auxiliary, frame guide roll stud, back, lower, l.h., nut 3/8"-18 x 5/8"	30-32	I-6349 Magazine, auxiliary, frame guide roll stud, lower	30-32
I- 831 Magazine, auxiliary, frame guide bracket, r.h., dowel 3/18" x 11/18"	30-32	I-6350 Magazine, auxiliary, frame side adjusting screw 3/8"-16 x 1 3/8"	30-32
I- 831 Magazine, auxiliary, frame guide bracket, l.h., dowel 3/18" x 11/18"	30-32	I-6363 Magazine, auxiliary, safety latch operating slide, assembled	30-32
I-3088 Magazine, auxiliary, frame side adjusting screw 1/2"-12 x 1 17/32"	30-32	I-6366 Magazine, auxiliary, frame guide bracket, r.h., screw, long 1/2"-12 x 1 1/2"	30-32
I-3220 Magazine, auxiliary, side adjusting screw, r.h.	32	I-6367 Magazine, auxiliary, frame guide bracket, r.h., dowel, long 1 3/8" x 7/16"	30-32
I-3371 Magazine, auxiliary, frame guide roll, back	30-32	I-6381 Magazine, auxiliary, frame guide roll, upper	30
I-5503 Magazine, auxiliary, frame guide roll bracket, r.h.	30-32	I-6382 Magazine, auxiliary, frame guide roll, upper, stud	30
I-5504 Magazine, auxiliary, frame guide roll bracket, l.h.	30-32	I-6597 Magazine, auxiliary, frame guide bracket, l.h., screw, lower, short 3/8"-18 x 1 1/8"	30-32
I-5505 Magazine, auxiliary, frame guide roll stud, front, upper	30-32	I-6597 Magazine, auxiliary, side adjusting screw, upper 3/8"-16 x 1 1/8"	32
I-5505 Magazine, auxiliary, frame guide roll stud, back, lower, l.h.	30-32		
I-5506 Magazine, auxiliary, frame guide roll stud, back, upper	30-32		
		<u>Parts Not Illustrated</u>	
		I-6342 Magazine, auxiliary, frame guide bracket, r.h.	30
		I-6365 Magazine, auxiliary, frame guide bracket, r.h., assembled	30
		I-6372 Magazine, auxiliary, frame guide bracket, l.h., assembled (to serial No. 57009)	30
		I-6542 Magazine, auxiliary, frame guide bracket, r.h.	32
		I-6544 Magazine, auxiliary, frame guide bracket, r.h., assembled	32
		I-6572 Magazine, auxiliary, frame guide bracket, l.h., assembled	32
		I-7796 Magazine, auxiliary, frame guide bracket, l.h., assembled (from serial No. 57100)	30

Please Give Model and Serial Number When Ordering



A- 120 Magazine, auxiliary, locating sliding block gib, upper, locating pin 1/4" x 5/16"	30	I-6380 Magazine, auxiliary, locating sliding block gib, upper, nut, r.h.	30
B- 584 Magazine, auxiliary, locating sliding block connecting pin cotter pin	30 32	I-6390 Magazine, auxiliary, locating sliding block, lower	30 32
C- 93 Magazine, auxiliary, locating sliding block gib, upper, nut, l.h. 3/8"-18 x 1/2"	30	I-6391 Magazine, auxiliary, locating sliding block, lower, stop pin	30 32
D- 532 Magazine, auxiliary, locating sliding block spring screw	30 32	I-6392 Magazine, auxiliary, locating sliding block, lower, assembled	30 32
E- 27 Magazine, auxiliary, locating sliding block gib adjusting screw, 4"-24 x 1"	30 32	I-6395 Magazine, auxiliary, locating sliding block, lower, connecting pin	30 32
E- 525 Magazine, auxiliary, locating sliding block gib, upper, screw washer	32	I-6396 Magazine, auxiliary, locating sliding block connecting pin washer	30 32
E-2592 Magazine, auxiliary, locating sliding block stop lever adjusting screw 10-32 x 31/32"	30	I-6397 Magazine, auxiliary, locating sliding block, upper, r.h.	30
F-5527 Magazine, auxiliary, locating sliding block stop lever fulcrum screw	30	I-6398 Magazine, auxiliary, locating sliding block, upper, connecting pin	30 32
G- 139 Magazine, auxiliary, locating sliding block spring hook	30	I-6399 Magazine, auxiliary, locating sliding block operating link stud, lower	30 32
G-3836 Magazine, auxiliary, locating sliding block connecting link turnbuckle	30 32	I-6400 Magazine, auxiliary, locating sliding block connecting link, lower section	30
H- 177 Magazine, auxiliary, locating sliding block operating lever pin set screw 8-32 x 1/4"	30 32	I-6401 Magazine, auxiliary, locating sliding block connecting link, upper section	30
H- 457 Magazine, auxiliary, locating sliding block gib, lower, screw washer	30 32	I-6402 Magazine, auxiliary, locating sliding block spring	30 32
I-5036 Magazine, auxiliary, locating sliding block gib, upper, screw 1/4"-24 x 5/8"	32	I-6403 Magazine, auxiliary, locating sliding block connecting link, r.h., assembled	30
I-5248 Magazine, auxiliary, locating sliding block spring screw	32	I-6517 Magazine, auxiliary, locating sliding block, upper, l.h.	30
I-5527 Magazine, auxiliary, locating sliding block operating lever fulcrum stud nut	30 32	I-6598 Magazine, auxiliary, locating sliding block gib, upper, r.h.	32
I-5631 Magazine, auxiliary, locating sliding block connecting link, lower section, lock nut 5/16"-24 x 1/8"	30 32	I-6603 Magazine, auxiliary, locating sliding block gib, upper, l.h.	32
I-5811 Magazine, auxiliary, locating sliding block connecting link, upper section, lock nut 5/16"-24 x 1/8"	30 32	I-6605 Magazine, auxiliary, locating sliding block connecting link, l.h., lower section	32
I-6351 Magazine, auxiliary, locating sliding block gib, lower	30 32	I-6613 Magazine, auxiliary, locating sliding block, upper, r.h.	32
I-6352 Magazine, auxiliary, locating sliding block gib, lower, screw 1/4"-24 x 1 1/16"	30 32	I-6614 Magazine, auxiliary, locating sliding block, upper, l.h.	32
I-6353 Magazine, auxiliary, locating sliding block operating lever, r.h.	30 32	I-6615 Magazine, auxiliary, locating sliding block connecting link, r.h., lower section	32
I-6354 Magazine, auxiliary, locating sliding block operating lever pin	30 32	I-6616 Magazine, auxiliary, locating sliding block connecting link, l.h., upper section	32
I-6355 Magazine, auxiliary, locating sliding block operating link, upper	30 32	I-6617 Magazine, auxiliary, locating sliding block connecting link, r.h., upper section	32
I-6356 Magazine, auxiliary, locating sliding block operating link, r.h., lower	30 32	I-6618 Magazine, auxiliary, locating sliding block connecting link, r.h., assembled	32
I-6357 Magazine, auxiliary, locating sliding block operating link stud, upper	30 32	I-6620 Magazine, auxiliary, locating sliding block connecting link, l.h., assembled	32
I-6358 Magazine, auxiliary, locating sliding block operating lever fulcrum stud	30 32	I-6705 Magazine, auxiliary, locating sliding block operating link, r.h., lower	30
I-6360 Magazine, auxiliary, locating sliding block operating lever, l.h.	30 32	I-6706 Magazine, auxiliary, locating sliding block operating link, l.h., lower	30
I-6370 Magazine, auxiliary, locating sliding block operating link, l.h., lower	30	I-7399 Magazine, auxiliary, locating sliding block connecting link, l.h., assembled	30
I-6373 Magazine, auxiliary, locating sliding block gib, upper, r.h.	30	I-7607 Magazine, auxiliary, locating sliding block connecting link, upper section, l.h.	30
I-6374 Magazine, auxiliary, locating sliding block gib, upper, l.h.	30	I-7608 Magazine, auxiliary, locating sliding block, upper, l.h.	30
I-6375 Magazine, auxiliary, locating sliding block gib, upper, washer	30	I-7695 Magazine, auxiliary, locating sliding block connecting link, l.h., assembled	30
I-6376 Magazine, auxiliary, locating sliding block gib, upper, screw, short 3/8"-16 x 15/16"	30	I-7696 Magazine, auxiliary, locating sliding block, upper, l.h., assembled	30
I-6377 Magazine, auxiliary, locating sliding block gib, upper, screw, long 3/8"-18 x 1.441"	30	I-7795 Magazine, auxiliary, locating sliding block stop lever	30
I-6378 Magazine, auxiliary, locating sliding block gib, upper, washer	30	J- 463 Magazine, auxiliary, locating sliding block operating link stud, upper, lock nut 1/4"-24 x 3/16"	30 32
I-6379 Magazine, auxiliary, locating sliding block gib, upper, nut, l.h. 3/8"-16 x 5/8"	30	J-1228 Magazine, auxiliary, locating sliding block stop lever adjusting screw nut 10-32 x 1/8"	30
		J-5182 Magazine, auxiliary, locating sliding block gib adjusting screw lock nut	30 32

Please Give Model and Serial Number When Ordering

D-354
(BACK)D-532
(FRONT)

D-1898



G-322



G-2790



D-342



I-5661

I-6064
(UPPER)

I-6067



I-5535 (L.H.)



I-5534 (R.H.)



I-5129



I-5105 (R.H.)



I-5104 (L.H.)



I-5543



E-3479



G-415

I-5886 (A=5/8")
I-6148 (A=7/16")

I-6066

I-6065
(LOWER)

I-6571 (L.H.) (32)



I-6543 (R.H.) (32)



I-6368 (L.H.) (30)



I-6343 (R.H.) (30)



I-8508



I-6828



I-5509



I-6344



I-6346



I-6345



I-6347



A-700



I-5830



I-6827



I-6829



A-115



I-5520



F-592



A-885



E-3238



I-6409



I-6826



I-6825 (L.H.)



E-165



I-6824 (R.H.)



A-720



I-5307



A-325

A- 115 Magazine, auxiliary, support dowel, upper 3/8" x 7/8"	32	I-6066 Magazine, auxiliary, locating lever link, upper and lower, connection	30
A- 325 Magazine, auxiliary, support dowel, lower 3/8" x 2 3/8"	32	I-6067 Magazine, auxiliary, locating lever link, assembled	30
A- 700 Magazine, auxiliary, support screw, lower 1/2"-12 x 2 3/8"	32	I-6148 Magazine, auxiliary, locating lever stud lock nut 5/16"-18 x 7/16"	32
A- 720 Magazine, auxiliary, support dowel, lower 3/8" x 1 1/8"	32	I-6307 Magazine, auxiliary, support dowel, lower	30
A- 885 Magazine, auxiliary, support pad cover	32	I-6343 Magazine, auxiliary, supporting arm, r.h.	30
D- 342 Magazine, auxiliary, locating lever stop screw	30-32	I-6344 Magazine, auxiliary, supporting arm fulcrum stud	30-32
D- 354 Magazine, auxiliary, locating lever link screw, back	30	I-6345 Magazine, auxiliary, supporting arm detent ball	30-32
D- 532 Magazine, auxiliary, locating lever link screw, front	30-32	I-6346 Magazine, auxiliary, supporting arm detent spring	30-32
D-1898 Magazine, auxiliary, locating lever link screw, back	32	I-6347 Magazine, auxiliary, supporting arm detent retaining screw	30-32
D-1898 Magazine, auxiliary, locating lever link screw	30-32	I-6368 Magazine, auxiliary, supporting arm, l.h.	30
E- 165 Magazine, auxiliary, support dowel, lower nut 3/8"-16 x 3/6"	30	I-6409 Magazine, auxiliary, support stud	30
E- 165 Magazine, auxiliary, support stud nut 3/8"-18 x 3/8"	30	I-6508 Magazine, auxiliary, supporting arm fulcrum stud nut	32
E-3238 Magazine, auxiliary, frame supporting frame screw 3/8"-18 x 1"	30-32	I-6543 Magazine, auxiliary, supporting arm, r.h.	32
E-3479 Magazine, auxiliary, locating lever stud lock washer	30	I-6571 Magazine, auxiliary, supporting arm, l.h.	32
F- 592 Magazine, auxiliary, support adjusting bushing washer	30	I-6824 Magazine, auxiliary, adjustable supporting bar, r.h.	30-32
G- 322 Magazine, auxiliary, locating lever spring	30-32	I-6825 Magazine, auxiliary, adjustable supporting bar, l.h.	30-32
G- 415 Magazine, auxiliary, locating lever link, upper and lower, connector screw 8-48 x 1/8"	30	I-6826 Magazine, auxiliary, adjustable supporting bar friction spring	30-32
G-2790 Magazine, auxiliary, locating lever spring eye	30-32	I-6827 Magazine, auxiliary, adjustable supporting screw, center, nut	30-32
I-5104 Magazine, auxiliary, locating lever, l.h.	30-32	I-6828 Magazine, auxiliary, adjustable supporting bar screw, center, nut	30-32
I-5105 Magazine, auxiliary, locating lever, r.h.	30-32	I-6829 Magazine, auxiliary, adjustable supporting bar screw, side 10-32 x 1 3/32"	30-32
I-5129 Magazine, auxiliary, locating lever link	32	I-6830 Magazine, auxiliary, adjustable supporting bar screw, center 5-40 x 1 3/32"	30-32
I-5509 Magazine, auxiliary, supporting arm fulcrum stud nut	30	<u>Parts Not Illustrated</u>	
I-5520 Magazine, auxiliary, support adjusting bushing	30	I-5976 Magazine, auxiliary, support brace, to serial No. 53618	30-32
I-5534 Magazine, auxiliary, locating lever link, r.h.	30	I-6210 Magazine, auxiliary, support	30
I-5535 Magazine, auxiliary, locating lever link, l.h.	30	I-6541 Magazine, auxiliary, support	32
I-5543 Magazine, auxiliary, locating lever stud	30-32	I-6619 Magazine, auxiliary, support brace, from serial No. 53617	32
I-5661 Magazine, auxiliary, locating lever link, upper and lower, connector pin 3/32" x 1/2"	30		
I-5886 Magazine, auxiliary, locating lever stud lock nut	30		
I-6064 Magazine, auxiliary, locating lever link, upper	30		
I-6065 Magazine, auxiliary, locating lever link, lower	30		

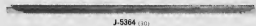
Please Give Model and Serial Number When Ordering

F-6014 (32)
(LOWER)

I-5596 (R.H.)



I-7635 (R.H.)



J-5364 (30)



I-6386 (30)



I-5602 (30)



I-5694 (R.H.)



G-246

I-5965 (32)
(UPPER)

E-1024



H-3241



H-71



J-1228



I-5644 (30)



D-657

I-5624 (R.H.)
I-5625 (L.H.)

D-567



I-5195



I-5185



D-1028



I-5603 (30)



I-5626

I-5611 (R.H.)
I-5613 (L.H.)

I-5610



F-2344



I-4488



I-5180 (32)



G-2790



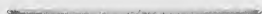
I-5575



D-972



I-6649



I-6608 (32)



I-4400 (R.H.)



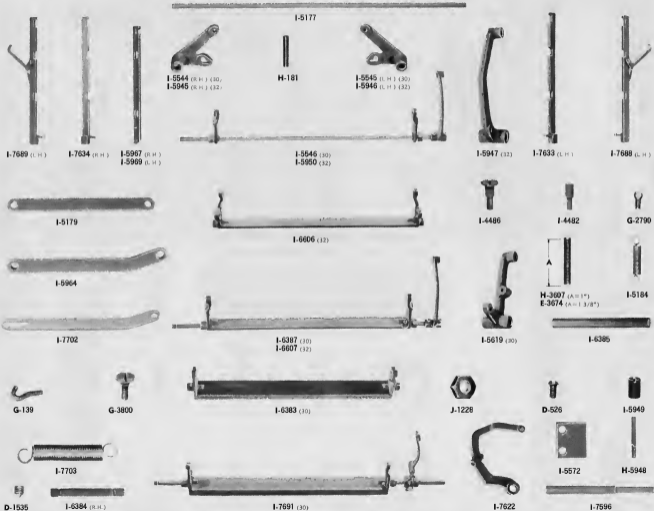
D-978 (R.H.)

Assembling Mechanism

Models 30-32 Magazine Frame, Auxiliary, Matrix Guard 147

D- 567	Automatic matrix guard, auxiliary, lower, safety latch trip screw 4-48 x 11/32"	30	I-5575	Automatic matrix guard, auxiliary, safety latch spring	30
D- 657	Automatic matrix guard, auxiliary, lower, safety latch trip dowel 3/32" x 1/4"	30	I-5594	Automatic matrix guard bar, auxiliary, r.h., bracket	30
D- 972	Automatic matrix guard auxiliary, finger dowel	32	I-5595	Automatic matrix guard bar, auxiliary, l.h., bracket	30
D- 978	Automatic matrix guard, auxiliary, screw, r.h.	32	I-5602	Automatic matrix guard, auxiliary, upper	30
D-1028	Automatic matrix guard, auxiliary, lever spring stud, lower	30	I-5603	Automatic matrix guard, auxiliary, lower	30
E-1024	Automatic matrix guard bar, auxiliary, l.h., bracket screw 1/4"-24 x 3/4"	30	I-5610	Automatic matrix guard, auxiliary, safety latch trip pin	30
E-1024	Automatic matrix guard bar, auxiliary, r.h., bracket screw 1/4"-24 x 3/4"	30	I-5611	Automatic matrix guard, auxiliary, safety latch, r.h., assembled	30
F-2344	Automatic matrix guard, auxiliary, screw nut 10-32 x 1/4"	30-32	I-5613	Automatic matrix guard, auxiliary, safety latch, l.h., assembled	30
F-6014	Automatic matrix guard, auxiliary, lever link stud, lower	32	I-5624	Automatic matrix guard, auxiliary, lower, safety latch trip, r.h.	30
G- 246	Automatic matrix guard bar, auxiliary, r.h., bracket dowel	30	I-5625	Automatic matrix guard, auxiliary, lower, safety latch trip, l.h.	30
G- 246	Automatic matrix guard bar, auxiliary, l.h., bracket dowel 3/16" x 15/32"	30	I-5626	Automatic matrix guard, auxiliary, safety latch, r.h., stud	30
G-2790	Automatic matrix guard, auxiliary, safety latch spring eye	30	I-5626	Automatic matrix guard, auxiliary, safety latch, l.h., stud	30
H- 71	Automatic matrix guard, auxiliary, lever pin 1/8" x 11/16"	30	I-5644	Automatic matrix guard, auxiliary, lower, assembled	30
H-3241	Automatic matrix guard, auxiliary, lever link stud washer	32	I-5965	Automatic matrix guard, auxiliary, lever link stud, upper	32
I-4400	Automatic matrix guard, auxiliary, screw, r.h.	32	I-6386	Automatic matrix guard, auxiliary, upper	30
I-4488	Automatic matrix guard, auxiliary, screw	32	I-6608	Automatic matrix guard, auxiliary	32
I-5180	Automatic matrix guard, auxiliary	32	I-6649	Automatic matrix guard, auxiliary, finger	32
I-5185	Automatic matrix guard, auxiliary, lever spring	30-32	I-7635	Automatic matrix guard bar, auxiliary, l.h., bracket	30
I-5195	Automatic matrix guard, auxiliary, lever spring stud, upper	32	J-1228	Automatic matrix guard, auxiliary, lever link stud lock nut	32
			J-5364	Escapement verge plunger, auxiliary, push rod guard	30

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 30-32 Magazine Frame, Auxiliary, Matrix Guard 149

D- 526	Automatic matrix guard operating bar, auxiliary, bracket gib screw 4-48 x 3/16"	30	I-5950	Automatic matrix guard, auxiliary, bar operating lever and shaft, assembled	32
D-1535	Automatic matrix guard, auxiliary, bar operating lever stud, r.h., set screw	30	I-5964	Automatic matrix guard, auxiliary, operating link	32
E-3674	Automatic matrix guard, auxiliary, lever stop screw 1/4"-24 x 1 3/8"	30	I-5967	Automatic matrix guard operating bar, auxiliary, r.h., assembled	32
G- 139	Automatic matrix guard, auxiliary, operating link spring hook	32	I-5969	Automatic matrix guard operating bar, auxiliary, l.h., assembled	32
G-2790	Automatic matrix guard operating bar, auxiliary, spring eye	30	I-6383	Automatic matrix guard, auxiliary, bar operating lever	30
G-2790	Automatic matrix guard, auxiliary, operating link spring eye	32	I-6384	Automatic matrix guard, auxiliary, bar operating lever stud, r.h.	30
G-2790	Automatic matrix guard operating bar, auxiliary, r.h. and l.h., spring eye	32	I-6385	Automatic matrix guard, auxiliary, bar operating lever stud, l.h.	30
G-3800	Automatic matrix guard, auxiliary, operating link screw	32	I-6387	Automatic matrix guard, auxiliary, bar operating lever and studs, assembled	30
H- 181	Automatic matrix guard, auxiliary, lever operating lever, r.h. and l.h., pin 1/8" x 5/8"	30	I-6606	Automatic matrix guard, auxiliary, bar operating lever	32
H-3607	Automatic matrix guard, auxiliary, lever stop screw 10-32 x 1"	30	I-6607	Automatic matrix guard, auxiliary, bar operating lever and stud, assembled	32
I-4482	Automatic matrix guard operating bar, auxiliary, l.h., stud	32	I-7596	Automatic matrix guard, auxiliary, bar operating lever stud, l.h.	30
I-4482	Automatic matrix guard operating bar, auxiliary, r.h., stud	32	I-7622	Automatic matrix guard, auxiliary, lever	30
I-4486	Automatic matrix guard operating bar, auxiliary, r.h., screw	32	I-7633	Automatic matrix guard operating bar, auxiliary, l.h., assembled	30
I-4486	Automatic matrix guard operating bar, auxiliary, l.h., screw	32	I-7634	Automatic matrix guard operating bar, auxiliary, r.h., assembled	30
I-5177	Automatic matrix guard, auxiliary, bar operating lever shaft	30-32	I-7688	Automatic matrix guard operating bar, auxiliary, and safety latch, r.h., assembled	30
I-5179	Automatic matrix guard, auxiliary, operating link	30	I-7689	Automatic Matrix guard operating bar, auxiliary, and safety latch, l.h., assembled	30
I-5184	Automatic matrix guard operating bar, auxiliary, r.h. and l.h. spring	32	I-7691	Automatic matrix guard, auxiliary, bar operating lever and studs, assembled	30
I-5544	Automatic matrix guard, auxiliary, bar operating lever, r.h.	30	I-7702	Automatic matrix guard, auxiliary, operating link	32
I-5545	Automatic matrix guard, auxiliary, bar operating lever, l.h.	30	I-7703	Automatic matrix guard, auxiliary, operating link spring	32
I-5546	Automatic matrix guard, auxiliary, bar operating lever and shaft, assembled	30	J-1228	Automatic matrix guard, auxiliary, lever stop screw nut 10-32 x 5/16"	30
I-5572	Automatic matrix guard operating bar, auxiliary, bracket gib	30	J-1228	Automatic matrix guard, auxiliary, operating link screw nut 10-32 x 3/16"	30
I-5619	Automatic matrix guard, auxiliary, lever	30			
I-5945	Automatic matrix guard, auxiliary, bar operating lever, r.h.	32			
I-5946	Automatic matrix guard, auxiliary, bar operating lever, l.h.	32			
I-5947	Automatic matrix guard, auxiliary, lever	32			
I-5948	Automatic matrix guard, auxiliary, bar operating lever pin	32			
I-5948	Automatic matrix guard, auxiliary, lever pin	32			
I-5949	Automatic matrix guard, auxiliary, lever operating lever pin nut	32			
I-5949	Automatic matrix guard, auxiliary, lever pin nut	32			

Please Give Model and Serial Number When Ordering



F-5436



I-4522



C-141



A-730



I-4718



I-467



I-5589



I-5590



I-4721



I-4528



I-6263



I-6258



I-6262



I-4722



I-4723



I-5588

I-5649 (A=1 15/16")
I-6278 (A=2 13/16")

C-535



I-5518



I-4525



I-4527



I-6259



I-6279 (UPPER)



F-215



F-860



H-177



I-5517



H-1115



D-1168



I-5078



I-5514



I-5077



I-6261



I-5076 (R.H.)



I-5075 (L.H.)

Assembling Mechanism

Models 30-32

Magazine Frame, Auxiliary, Elevating 151

A- 730 Magazine, auxiliary, elevating link bracket dowel 5/16" x 7/8"	30	I-4722 Magazine, auxiliary, elevating shaft miter gear driver	30-32
C- 141 Magazine, auxiliary, elevating pinion connecting shaft bearing block dowel 1/4" x 15/16"	30-32	I-4723 Magazine, auxiliary, elevating shaft miter gear driver shaft	30-32
C- 535 Magazine, auxiliary, elevating pinion shaft ball bearing retainer screw 10-32 x 3/8"	30-32	I-5075 Magazine, auxiliary, elevating pinion, l.h.	30-32
D-1168 Magazine, auxiliary, elevating shaft miter gear adjusting coupling screw 1/4"-24 x 1"	30-32	I-5076 Magazine, auxiliary, elevating pinion, r.h.	30-32
D-1168 Magazine, auxiliary, elevating pinion, r.h., screw 1/4"-24 x 1"	30-32	I-5077 Magazine, auxiliary, elevating shaft miter gear adjusting coupling, lower	30-32
F- 215 Magazine, auxiliary, elevating shaft miter gear adjusting coupling pin	30-32	I-5077 Magazine, auxiliary, elevating pinion, r.h., adjusting coupling	30-32
F- 215 Magazine, auxiliary, elevating pinion, l.h., pin 1/4" x 1 3/4"	30-32	I-5078 Magazine, auxiliary, elevating shaft miter gear adjusting coupling, upper, adjusting screw 1/4"-20 x 5/8"	30-32
F- 215 Magazine, auxiliary, elevating pinion, r.h., adjusting flange pin 1/4" x 1 3/4"	30-32	I-5078 Magazine, auxiliary, elevating pinion, r.h., adjusting screw 1/4"-20 x 5/8"	30-32
F- 860 Magazine, auxiliary, elevating shaft miter gear, driven set screw 14-24 x 5/16"	30-32	I-5514 Magazine, auxiliary, elevating shaft miter gear driven	30-32
F-5436 Magazine, auxiliary, elevating shaft miter gear driver ball bearing	30-32	I-5517 Magazine, auxiliary, elevating shaft miter gear driven key	30-32
H- 177 Magazine, auxiliary, elevating shaft miter gear driver key set screw 8-32 x 1/4"	30-32	I-5518 Magazine, auxiliary, elevating pinion shaft ball bearing retainer	30-32
H-1115 Magazine, auxiliary, elevating shaft miter gear adjusting coupling screw washer	30-32	I-5588 Magazine, auxiliary, elevating pinion shaft	30-32
H-1115 Magazine, auxiliary, elevating pinion, r.h., screw washer	30-32	I-5589 Magazine, auxiliary, elevating pinion shaft ball bearing collar	30-32
I- 467 Magazine, auxiliary, elevating pinion ball bearing collar pin 5/32" x 1 9/16"	30-32	I-5590 Magazine, auxiliary, elevating pinion ball bearing shield	30-32
I-4522 Magazine, auxiliary, elevating shaft miter gear driver ball bearing retainer washer	30-32	I-5649 Magazine, auxiliary, elevating shaft pinion and miter gear, assembled	30-32
I-4525 Magazine, auxiliary, elevating shaft miter gear driver key	30-32	I-6258 Magazine, auxiliary, elevating pinion shaft ball bearing retainer, upper, r.h.	30-32
I-4527 Magazine, auxiliary, elevating shaft miter gear driver washer	30-32	I-6259 Magazine, auxiliary, elevating pinion shaft	30-32
I-4528 Magazine, auxiliary, elevating shaft miter gear driver lock nut 3/8"-32 x 1, 2"	30-32	I-6261 Magazine, auxiliary, elevating shaft miter gear adjusting coupling	30-32
I-4718 Magazine, auxiliary, elevating pinion shaft ball bearing	30-32	I-6262 Magazine, auxiliary, elevating pinion shaft ball bearing retainer	30-32
I-4721 Magazine, auxiliary, elevating shaft miter gear, driver ball bearing spacer sleeve	30-32	I-6263 Magazine, auxiliary, elevating pinion and balance spring shaft	30-32
		I-6278 Magazine, auxiliary, elevating shaft pinion and miter gear, assembled	30-32
		I-6279 Magazine, auxiliary, elevating shaft pinion and miter gear, upper, assembled	30-32

Please Give Model and Serial Number When Ordering



I-5305



I-6359



G-702

I-5762 (A=5/8")
I-6364 (A=1 1/16")

I-3397



I-4997



I-3207



I-5519



I-6264

I-5116 (A=1.025)
I-6274 (A=1.999)

I-6276



D-978



I-5647

I-5080 (A=1 5/16")
I-6265 (A=2 9/16")

I-5221



I-6275



I-6407



I-568



D-1231



I-6280



I-6406



I-6405



J-2477



A-528



I-5272

Assembling Mechanism

Models 30-32

Magazine Frame, Auxiliary, Elevating 153

A- 828 Magazine, auxiliary, elevating shaft balance spring drum instruction plate screw	30-32	I-5519 Magazine, auxiliary, elevating shaft balance spring drum ball bearing retaining washer	30-32
D- 978 Magazine, auxiliary, balance spring drum cover, l.h., screw 10-32 x 3/4"	30-32	I-5647 Magazine, auxiliary, elevating shaft balance spring drum, assembled	30-32
D-1231 Magazine, auxiliary, balance spring drum cover, r.h., key screw 10-32 x 5/8"	30-32	I-5762 Magazine, auxiliary, balance spring drum detent pin	30-32
D-1231 Magazine, auxiliary, shaft balance spring drum cover, l.h., key screw 10-32 x 5/8"	30-32	I-6264 Magazine, auxiliary, balance spring drum bearing shield	30-32
G- 702 Magazine, auxiliary, balance spring drum detent pin knob pin 3/32" x 9/16"	30-32	I-6265 Magazine, auxiliary, balance spring hub key	30-32
I- 568 Magazine, auxiliary, balance spring drum cover, r.h., screw 10-32 x 1"	30-32	I-6274 Magazine, auxiliary, elevating shaft balance spring drum ball bearing	30-32
I-3207 Magazine, auxiliary, elevating shaft balance spring drum cover screw 1/4"-24 x 5/8"	30-32	I-6275 Magazine, auxiliary, balance spring drum cover, r.h., key	30-32
I-3397 Magazine, auxiliary, balance spring drum detent pin knob	30-32	I-6276 Magazine, auxiliary, elevating shaft balance spring drum ball bearing retaining washer	30-32
I-4997 Magazine, auxiliary, balance spring drum detent pin spring	30-32	I-6280 Magazine, auxiliary, elevating shaft balance spring drum, assembled	30-32
I-5080 Magazine, auxiliary, balance spring hub key	30-32	I-6359 Magazine, auxiliary, balance spring drum detent pin knob	30-32
I-5116 Magazine, auxiliary, elevating shaft balance spring drum ball bearing	30-32	I-6364 Magazine, auxiliary, balance spring drum detent pin	30-32
I-5221 Magazine, auxiliary, elevating shaft balance spring drum ball bearing retaining washer screw 3/8"-18 x 5/8"	30-32	I-6405 Magazine, auxiliary, balance spring anchor plate latch stud	30-32
I-5272 Magazine, auxiliary, elevating shaft balance spring drum instruction plate	30-32	I-6406 Magazine, auxiliary, balance spring anchor plate latch, assembled	30-32
I-5305 Magazine, auxiliary, balance spring drum detent safety cotter pin	30-32	I-6407 Magazine, auxiliary, balance spring drum cover, r.h., screw 10-32 x 7/8"	30-32
		J-2477 Magazine, auxiliary, balance spring anchor plate latch screw 10-32 x 3/8"	30-32

Please Give Model and Serial Number When Ordering



I-5872



I-5841



I-5908

H-3794
(L.H.) (UPPER)

I-1072



E-2615



I-1697



H-518



A-732



I-5907 (R.H.)



F-2771



I-5871 (L.H.)



D-131



A-555



F-64



D-1805



D-407



A-731



J-5512



J-5525



A-730



J-3625



A-555



F-64



D-1805



F-861



F-244



I-1120



I-5838 (L.H.)



G-1194



J-3078



J-511



H-457

I-5842
I-5843

I-2536



I-1873



D-164



I-8005 (L.H.)



H-1932



F-689



I-5840 (L.H.)



I-5853



I-5909



J-5182



I-6073



B-222



I-5837 (R.H.)



I-5839 (R.H.)

Assembling Mechanism

Models 5-31-32 Stationary Front Guide Holder Bracket 155

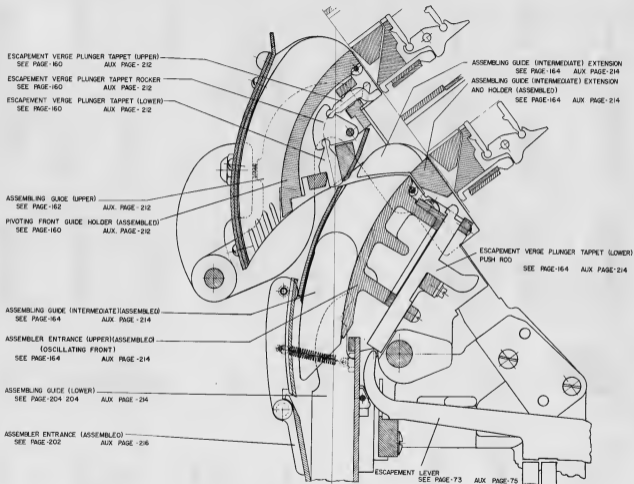
A- 555 Stationary front guide holder bracket, l.h., screw, long 3/8"-18 x 3/8"	5-31-32	I-2536 Magazine frame side adjusting block adjusting screw 5/16"-18 x 1 1/8"	5
A- 730 Stationary front guide holder bracket, l.h., dowel, upper 5/16" x 7/8"	5-31-32	I-5583 Magazine frame side adjusting block adjusting screw lock nut 5/16"-18 x 9/16"	5-31-32
A- 731 Stationary front guide holder bracket, r.h., dowel, lower 5/16" x 1 1/4"	5-31-32	I-5837 Magazine frame, lower, guide rail, r.h.	31-32
A- 732 Stationary front guide holder bracket, r.h., dowel, upper 1/4" x 3/4"	5-31-32	I-5838 Magazine frame, lower, guide rail, l.h.	31-32
B- 222 Magazine frame, lower, guide rail dowel, upper 1/4" x 1 3/16"	31-32	I-5839 Magazine frame, lower, guide rail spacer, r.h.	31-32
D- 131 Stationary front guide holder bracket, l.h., screw, short 3/8"-18 x 1 1/8"	5-31-32	I-5840 Magazine frame, lower, guide rail spacer, l.h.	31-32
D- 164 Magazine frame side adjusting block screw 1/4"-24 x 15/16"	5-31-32	I-5841 Magazine locating block, lower, adjusting piece	31-32
D- 407 Stationary front guide holder bracket, r.h., support screw 3/8"-18 x 3/4"	5-31-32	I-5842 Magazine frame, lower, guide rail screw, upper 1/4"-24 x 9/16"	31-32
D-1805 Stationary front guide holder bracket, r.h., screw, large 3/8"-18 x 1 7/8"	32	I-5843 Magazine frame, lower, guide rail screw, upper 1/4"-24 x 1" (used with I-5838, I-5840)	31-32
E-2615 Keyboard rod, long, frame bracket, l.h., upper, screw 1/4"-24 x 1"	5-31-32	I-5871 Magazine locating block, lower, guide, l.h.	31-32
F- 64 Stationary front guide holder bracket, r.h., screw, small 1/4"-24 x 23/32"	5-31-32	I-5872 Magazine locating block, lower, guide, l.h., lock nut	31-32
F- 244 Stationary front guide holder bracket, r.h., screw, large 3/8"-16 x 1 1/2"	5-31	I-5907 Magazine locating block, lower, guide, r.h.	31-32
F- 689 Magazine frame, lower, guide rail screw, lower 1/4"-24 x 3/4"	31-32	I-5908 Magazine locating block, lower, guide, r.h., lock nut 1/4"-24 x 8/16"	31-32
F- 861 Stationary front guide holder bracket, l.h., dowel, lower 5/16" x 1 3/4"	5-31-32	I-5909 Magazine frame side adjusting block adjusting screw lock nut, r.h. 5/16"-18 x 9/16"	31-32
F-2771 Magazine locating block adjusting piece screw 1/4"-24 x 11/16"	31-32	I-6073 Magazine frame side adjusting block	5-31-32
G-1194 Stationary front guide holder screw, large	31-32	I-8005 Magazine frame side adjusting block, l.h.	31-32
H- 457 Magazine frame, lower, guide rail screw, lower, washer	31-32	J- 511 Stationary front guide holder dowel 3/16" x 1/2"	5-31-32
H- 518 Keyboard rod, long, frame bracket, r.h., screw 5/16"-18 x 3/4"	31-32	J-3076 Stationary front guide holder	5-31-32
H-1932 Magazine frame side adjusting block, l.h., dowel 1/8" x 5/8"	5	J-3625 Assembling guide, upper, locking rod	31-32
H-3794 Keyboard rod, long, frame bracket, l.h., upper	5-31-32	J-5182 Magazine frame side adjusting block adjusting screw lock nut	31-32
I-1072 Stationary front guide holder bracket, r.h., dowel, upper 1/4" x 3/4"	31-32	J-5512 Stationary front guide holder bracket, l.h., adjusting screw 1/2"-12 x 3 0/16"	5-31-32
I-1120 Magazine frame, lower, guide rail dowel, lower and upper 1/4" x 5/8"	31-32	J-5525 Stationary front guide holder bracket, l.h., adjusting screw nut 1/2"-12 x 1"	5-31-32
I-1697 Stationary front guide holder bracket, r.h., support	5-31-32		
I-1873 Magazine frame side adjusting block adjusting screw, l.h. 5/16"-18 x 1 3/8"	5		

Parts Not Illustrated

J-5522 Stationary front guide holder bracket, r.h.	5-31-32
J-5523 Stationary front guide holder bracket, l.h.	5-31-32
J-5524 Stationary front guide holder bracket, r.h., assembled	31-32
J-5528 Stationary front guide holder bracket, l.h., assembled	31-32
J-6061 Stationary front guide holder bracket, r.h., assembled	5-31-32
J-6062 Stationary front guide holder bracket, l.h., assembled	5
J-6318 Stationary front guide holder bracket, l.h., assembled	31-32

Please Give Model and Serial Number When Ordering





Check Parts by Referring to Detail Pages.



A-730



A-731



E-1079



J-5250



G-190



F-64



C-141



I-3207



J-6320 (29)



E-38



J-5247 (L.H.)



J-5246 (R.H.)
 J-5242 (R.H.) (FROM SERIAL NO. 97100)
 J-6322 (R.H.) (FROM SERIAL NO. 61902)



I-5509



J-5296



A-732



J-1182



D-1805 (30)



I-1807 (30)



I-5580 (L.H.)



I-5556



H-352



I-5579 (L.H.)



D-164



G-12



F-244 (29)



I-3793 (A=1/2")
 I-6073 (R.H.) (A=1/4")



I-5583



G-3999



H-518



E-2720



I-5584 (R.H.)
 I-5585 (L.H.)



H-2290



I-9005 (L.H.)



I-1873 (L.H.)



D-164



I-5581 (R.H.)



I-5582 (L.H.)



I-2540



I-2539



C-150

Assembling Mechanism

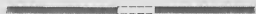
Models 29-30

Pivoting Front Guide Holder Bracket 159

A- 730 Pivoting front guide holder bracket, l.h., dowel, short .3125" x 7/8"	29-30	I-5509 Pivoting front guide holder bracket, l.h., adjusting screw lock nut	29-30
A- 731 Pivoting front guide holder bracket, l.h., dowel 5/16" x 1 1/4"	29-30	I-5579 Magazine frame locating block, lower, r.h.	29-30
A- 731 Pivoting front guide holder bracket, r.h., dowel, lower 5/16" x 1 1/4"	29-30	I-5580 Magazine frame locating block, l.h.	29-30
A- 732 Pivoting front guide holder bracket, r.h., dowel, upper 1/4" x 3/4"	29-30	I-5581 Magazine side adjusting block adjusting screw, r.h. 5/16"-18 x 11/18"	29-30
A- 732 Pivoting front guide holder bracket, r.h., support dowel 1/4" x 3/4"	29-30	I-5582 Magazine side adjusting block adjusting screw, l.h. 5/16"-18 x 11/16"	29-30
C- 141 Pivoting front guide holder fulcrum bracket, r.h., dowel 1/4" x 1/8"	29-30	I-5583 Magazine side adjusting block bracket adjusting screw nut	29-30
C- 150 Magazine locating block support adjusting piece, screw 1/4"-24 x 23/32"	29-30	I-5584 Magazine adjusting block, r.h.	29-30
D- 164 Magazine frame side adjusting block screw 1/4"-24 x 1 1/16"	29-30	I-5585 Magazine adjusting block, l.h.	29-30
D- 164 Pivoting front guide holder bracket, r.h., screw, small 1/4"-24 x 1 1/16"	29-30	I-5586 Magazine frame locating block, lower, r.h., screw 3/8"-16 x 1 3/8"	29-30
D- 1805 Pivoting front guide holder bracket, r.h., screw, large 3/8"-18 x 7/8"	29-30	I-5656 Magazine frame locating block, lower, l.h., screw 3/8"-16 x 1 3/8"	29-30
E- 38 Pivoting front guide holder bracket, l.h., screw, short 3/8"-16 x 7/8"	29-30	I-6073 Magazine frame side adjusting block, r.h.	29-30
E-1079 Pivoting front guide holder bracket, l.h., dowel, short .3125" x .862"	29-30	I-8005 Magazine frame side adjusting block, l.h.	29-30
E-2720 Magazine adjusting block, r.h., adjusting screw nut 5/16" x 1 8/8"	29-30	J-1182 Pivoting front guide holder bracket, r.h., support	29-30
E-2720 Magazine adjusting block, l.h., adjusting screw nut 5/16" x 1 8/8"	29-30	J-5246 Pivoting front guide holder fulcrum bracket, r.h.	29-30
F- 64 Pivoting front guide holder bracket, r.h., support screw 1/4"-24 x 23/32"	29-30	J-5247 Pivoting front guide holder fulcrum bracket, l.h.	29-30
F- 64 Pivoting front guide holder bracket fulcrum bracket, r.h., screw 1/4"-24 x 23/32"	29-30	J-5250 Pivoting front guide holder fulcrum bracket, l.h. key	29-30
F- 244 Pivoting front guide holder bracket, r.h., screw, large 3/8"-18 x 1 1/2"	29	J-5298 Pivoting front guide holder bracket, l.h., adjusting screw 1/2"-12 x 4 1/8"	29-30
G- 12 Pivoting front guide holder bracket, l.h., screw 3/8"-18 x 1 3/4"	29-30	J-6242 Pivoting front guide holder fulcrum bracket, r.h.	29-30
G- 190 Pivoting front guide holder fulcrum bracket, l.h., key pin 1/16" x 9/32"	29-30	J-6320 Pivoting front guide holder bracket, r.h., screw	29-30
G-3999 Pivoting front guide holder balance spring lever fulcrum stud nut lock washer	29-30	J-6322 Pivoting front guide holder fulcrum bracket, r.h.	29-30
H- 352 Magazine frame locating block, lower, r.h., screw washer	29-30		
H- 352 Magazine frame locating block, lower, l.h., screw washer	29-30		
H- 518 Keyboard rod long frame bracket, r.h., screw 5/16"-18 x 3/4"	29-30		
H-2290 Magazine adjusting block, r.h., screw 1/4"-24 x 5/8"	29-30		
H-2290 Magazine adjusting block, l.h., screw 1/4"-24 x 5/8"	29-30		
I-1807 Pivoting front guide holder bracket, r.h., screw, large 3/8"-18 x 1 3/4"	30		
I-1873 Magazine frame side adjusting block adjusting screw, l.h. 5/16"-18 x 1 3/8"	29-30		
I-2539 Magazine locating block support adjusting piece	29-30		
I-2540 Magazine locating block support adjusting piece screw washer	29-30		
I-3207 Pivoting front guide holder fulcrum bracket, l.h., screw 1/4"-24 x 5/8"	29-30		
I-3793 Magazine frame side adjusting block	29-30		
		J-5237 Pivoting front guide holder bracket, r.h.	29-30
		J-5238 Pivoting front guide holder bracket, l.h.	29-30
		J-5239 Pivoting front guide holder bracket, r.h., assembled	29-30
		J-5300 Pivoting front guide holder bracket, l.h., assembled	29-30
		J-5661 Pivoting front guide holder bracket, r.h. (from serial No. 53428)	29-30
		J-5662 Pivoting front guide holder bracket, r.h., assembled (from serial No. 53428)	29-30
		J-5664 Pivoting front guide holder bracket, l.h., assembled (from serial No. 53428)	29-30
		J-6239 Pivoting front guide holder bracket, r.h. (from serial No. 57100)	29-30
		J-6240 Pivoting front guide holder bracket, r.h., assembled (from serial No. 57100)	29-30
		J-6241 Pivoting front guide holder bracket, l.h., assembled (from serial No. 57100)	29-30
		J-6319 Pivoting front guide holder bracket, l.h. (from serial No. 81988)	29-30
		J-6321 Pivoting front guide holder bracket, r.h. (from serial No. 81988)	29-30
		J-6323 Pivoting front guide holder bracket, r.h., assembled (from serial No. 81988)	29-30
		J-6324 Pivoting front guide holder bracket, l.h., assembled (from serial No. 81988)	29-30

Parts Not Illustrated

Please Give Model and Serial Number When Ordering



D-4740 (USED WITH J-5181)
D-5228 (USED WITH J-5562)



D-4723



J-5180



D-979



F-3969 (L.H.)



D-4733



J-5150
J-5480 (72 90)



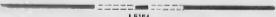
J-5160



J-5173
J-5465 (72 90)



J-5157



J-5154



J-5142



J-5158



D-4742



D-4743



H-1138



D-4732



J-5119



D-4722



J-5182



E-27



J-5140 (R.H.)



J-5563



J-5181



J-5175



B-209



J-5174



G-4117



J-5504



J-5234 (R.H.)



G-3398



J-5182



J-5521 (L.H.)



G-181



J-5141 (L.H.)



J-5562



J-5147



D-168



J-5502 (UPPER)



D-979



J-5151



J-982



D-403



J-5152 (LOWER)

Assembling Mechanism

Models 29-30

Pivoting Front Guide Holder 161

B- 209	Pivoting front guide holder shaft set screw 1/4"-24 x 5/16"	29-30	J-5150	Pivoting front guide holder	29-30
D- 168	Pivoting front guide holder side plate shoe screw 4-48 x 1/4"	29-30	J-5151	Escapement verge plunger tappet rocker	29-30
D- 403	Escapement verge plunger tappet, lower, stop bar dowel 1/16" x 37/64"	29-30	J-5152	Escapement verge plunger tappet, lower	29-30
D- 979	Pivoting front guide holder side plate, r.h., screw 10-32 x 3/8"	29-30	J-5154	Escapement verge plunger tappet rocker rod	29-30
D- 979	Pivoting front guide holder side plate, l.h., screw 10-32 x 3/8"	29-30	J-5157	Escapement verge plunger tappet, upper, guide strip	29-30
D- 979	Escapement verge plunger tappet, lower, guide screw, short 10-32 x 3/8"	29-30	J-5158	Escapement verge plunger tappet, lower, stop bar	29-30
D-4722	Assembler entrance flexible buffer, upper, large	29-30	J-5160	Pivoting front guide holder shaft	29-30
D-4723	Assembler entrance flexible buffer, upper, cover	29-30	J-5173	Escapement verge plunger tappet, upper, guide	29-30
D-4732	Assembler entrance flexible buffer, upper, small, screw 4-48 x 7/32"	29-30	J-5174	Escapement verge plunger tappet, upper, guide strip screw 4-48 x 9/32"	29-30
D-4733	Assembler entrance flexible buffer, upper, small	29-30	J-5175	Escapement verge plunger tappet, upper, guide screw 5-40 x 1/4"	29-30
D-4740	Assembler entrance flexible buffer, upper, cover strip (used with J-5181 handle)	29-30	J-5180	Pivoting front guide holder side plate spacing washer	29-30
D-4742	Assembler entrance flexible buffer, upper, cover strip screw 4-48 x 7/32"	29-30	J-5181	Pivoting front guide holder handle	29-30
D-4743	Assembler entrance flexible buffer, upper, large, screw 4-48 x 1/8"	29-30	J-5182	Pivoting front guide holder stop screw nut	29-30
D-5226	Assembler entrance flexible buffer, upper, cover strip (used with J-5562 handle)	29-30	J-5182	Pivoting front guide holder locating screw, r.h., lock nut	29-30
E- 27	Pivoting front guide holder stop screw 1/4"-24 x 1"	29-30	J-5234	Pivoting front guide holder locating screw, r.h.	29-30
F-3969	Pivoting front guide holder stop screw, l.h. 1/4"-24 x 3/4"	29-30	J-5460	Pivoting front guide holder (72-90 character)	29-30
G- 181	Pivoting front guide holder side plate, r.h., dowel 5/32" x 21/64"	29-30	J-5465	Escapement verge plunger tappet, upper, guide (72-90 character)	29-30
G- 181	Pivoting front guide holder side plate, l.h., dowel 5/32" x 21/64"	29-30	J-5502	Escapement verge plunger tappet, upper	29-30
G-3398	Pivoting front guide holder locating screw, l.h., lock nut 1/4"-24 x 1/8"	29-30	J-5504	Escapement verge plunger tappet, lower, guide screw 5-40 x 15/32"	29-30
G-4117	Pivoting front guide holder bracket, r.h., pad cover	29-30	J-5521	Pivoting front guide holder locating screw, l.h. 1/4"-24 x 1 15/64"	29-30
H-1138	Assembler entrance flexible buffer, upper, cover screw 5-40 x 1/4"	29-30	J-5562	Pivoting front guide holder handle	29-30
J- 982	Escapement verge plunger tappet, lower, stop bar screw 5-40 x 3/8"	29-30	J-5563	Pivoting front guide holder handle screw 5-40 x 3/8"	29-30
J-5119	Assembling guide, upper, locking rod	29-30			
J-5140	Pivoting front guide holder side plate, r.h.	29-30			
J-5141	Pivoting front guide holder side plate, l.h.	29-30			
J-5142	Escapement verge plunger tappet, lower, guide	29-30			
J-5147	Pivoting front guide holder side plate shoe	29-30			

Parts Not Illustrated

J-5179	Pivoting front guide holder, assembled (90 character) to serial No. 52741	29-30
J-5490	Pivoting front guide holder, assembled (72-90 character) to serial No. 52741	29-30
J-5598	Pivoting front guide holder, assembled (90 character) from serial No. 52742	29-30
J-5606	Pivoting front guide holder, assembled (72-90 character) from serial No. 52742	29-30

Please Give Model and Serial Number When Ordering



J-5371



E-165



J-6247 (29)



J-6248 (30)



J-5370



J-5666



J-6249 (29)



J-6250 (30)



J-5369



J-5383



G-3398



J-5382 (LOWER)



J-5665



J-5368



J-5379



J-5374



J-5372



J-5373



J-5378



J-5377



J-5381



J-5375



J-5376



J-5380

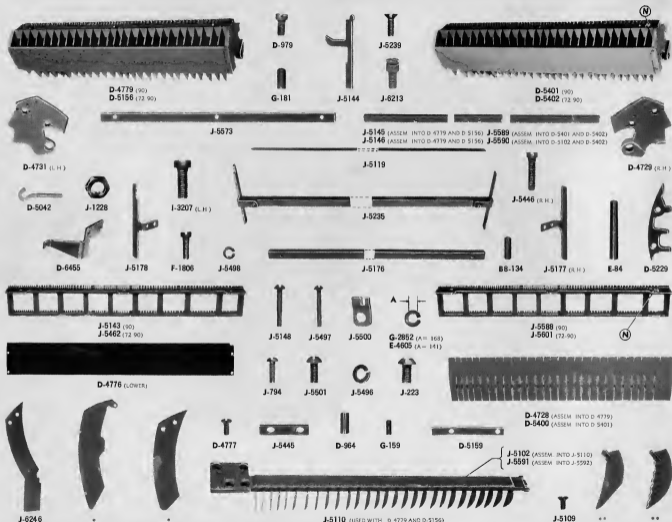
Assembling Mechanism
Models 29-30
Pivoting Front Guide Holder 163

E-165	Pivoting front guide holder balance spring lever fulcrum stud nut																		J-5378	Pivoting front guide holder balance spring rod collar pin	29-30
G-3398	Pivoting front guide holder balance spring link stud, upper, nut																		J-5379	Pivoting front guide holder balance spring, assembled	29-30
J-5368	Pivoting front guide holder balance spring rod																		J-5380	Pivoting front guide holder balance spring housing fulcrum stud	29-30
J-5369	Pivoting front guide holder balance spring lever link																		J-5381	Pivoting front guide holder balance spring rod stud	29-30
J-5370	Pivoting front guide holder balance spring lever																		J-5382	Pivoting front guide holder balance spring lever link stud, lower	29-30
J-5371	Pivoting front guide holder balance spring lever fulcrum stud																		J-5383	Pivoting front guide holder balance spring link stud, upper	29-30
J-5372	Pivoting front guide holder balance spring housing																		J-5665	Pivoting front guide holder balance spring lever link	29-30
J-5373	Pivoting front guide holder balance spring rod sleeve																		J-5666	Pivoting front guide holder balance spring lever	29-30
J-5374	Pivoting front guide holder balance spring																		J-6247	Pivoting front guide holder balance spring lever fulcrum stud	29
J-5375	Pivoting front guide holder balance spring washer																		J-6248	Pivoting front guide holder balance spring lever fulcrum stud	30
J-5376	Pivoting front guide holder balance spring adjusting bushing																		J-6249	Pivoting front guide holder balance spring lever	29
J-5377	Pivoting front guide holder balance spring rod collar																		J-6250	Pivoting front guide holder balance spring lever	30

Assembling Guide, Upper

Guide Numbers	1	2	3	4	5	6	7	8	9	10	11	12	13	14
90 Character	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115
72-90 Character	J-5468	J-5471	J-5472	J-5472	J-5472	J-5473	J-5473	J-5472	J-5473	J-5474	J-5474	J-5475	J-5475	J-5476
	15	16	17	18	19	20	21	22	23	24	25	26	27	
90 Character	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5115	J-5117	J-5118	J-5118	J-5118	J-5118	J-5118	J-5118
72-90 Character	J-5476	J-5476	J-5477	J-5477	J-5477	J-5478	J-5479	J-5479	J-5479	J-5479	J-5480	J-5480	J-5118	

Please Give Model and Serial Number When Ordering



* Assembling Guide, Intermediate—See opposite page for part numbers.

** Assembling Guide, Intermediate, Extension—See opposite page for part numbers.

Assembling Mechanism

Models 29-30

Assembler Entrance, Upper 165

BB-134 Escapement verge plunger tappet, lower, push rod stop bar guide dowel 1/8" x 3/8"	29-30	J-5119 Assembling guide, intermediate, locking rod	29-30
D-964 Assembling guide, intermediate, extension holder dowel 5/32" x 3/8"	29-30	J-5143 Escapement verge plunger tappet, lower, push rod holder (90 character)	29-30
D-979 Assembler entrance, upper, side plate, r.h., screw 10-32 x 3/8"	29-30	J-5144 Escapement verge plunger tappet, lower, push rod retaining strip, lower	29-30
D-979 Assembler entrance, upper, side plate, l.h., screw 10-32 x 3/8"	29-30	J-5145 Escapement verge plunger tappet, lower, push rod retaining strip, upper	29-30
D-4728 Assembler entrance, upper, (90 character)	29-30	J-5146 Escapement verge plunger tappet, lower, push rod holder screw, lower, large 5-40 x 13/16"	29-30
D-4729 Assembler entrance, upper, side plate, r.h.	29-30	J-5176 Escapement verge plunger tappet, lower, push rod stop bar	29-30
D-4731 Assembler entrance, upper, side plate, l.h.	29-30	J-5177 Escapement verge plunger tappet, lower, push rod stop bar guide, r.h.	29-30
D-4776 Assembler entrance, flexible buffer, lower, screw	29-30	J-5178 Escapement verge plunger tappet, lower, push rod stop bar guide, l.h.	29-30
D-4777 Assembler entrance, flexible buffer, lower, screw	29-30	J-5235 Escapement verge plunger tappet, lower, push rod stop bar, assembled	29-30
D-4779 Assembler entrance, upper, assembled (90 character)	29-30	J-5239 Assembling guide, intermediate, No. 1, screw 3-48 x 1/4"	29-30
D-5042 Assembler entrance, upper, balance spring hook	30	J-5239 Assembler entrance flexible buffer, lower, screw 3-48 x 1/4"	29-30
D-5156 Assembler entrance, upper, assembled (72-90)	29-30	J-5445 Assembling guide, intermediate, extension holder screw r.h., plate	29-30
D-5159 Assembler entrance, flexible buffer, lower, clamping strip	29-30	J-5446 Assembling guide, intermediate, extension holder screw, r.h. 8-32 x 5/8"	29-30
D-5229 Assembler entrance, upper, shim	29-30	J-5462 Escapement verge plunger tappet, lower, push rod holder (72-90)	29-30
D-5400 Assembler entrance, upper, assembled (90 character)	29-30	J-5496 Escapement verge plunger tappet, lower, push rod holder screw lock washer	29-30
D-5401 Assembler entrance, upper, assembled (90 character)	29-30	J-5497 Escapement verge plunger tappet, lower, push rod holder screw, small 4-48 x 13/16"	29-30
D-5402 Assembler entrance, upper, assembled (72-90)	29-30	J-5498 Escapement verge plunger tappet, lower, push rod retaining strip screw lock washer	29-30
D-6455 Assembler entrance, upper, balance spring bracket	29	J-5500 Assembling guide, intermediate, locking rod clamp	29-30
E-84 Assembler entrance, upper, pin 3/16" x 1 3/16"	29-30	J-5501 Escapement verge plunger tappet, lower, push rod holder screw, upper 10-32 x 7/16"	29-30
E-4605 Escapement verge plunger tappet, lower, push rod holder screw, lower, lock washer	29-30	J-5573 Escapement verge plunger tappet, lower, push rod holder cover	29-30
E-4605 Escapement verge plunger tappet, lower, push rod stop bar guide screw lock washer	29-30	J-5588 Escapement verge plunger tappet, lower, push rod holder (90 character)	29-30
F-1806 Escapement verge plunger tappet, lower, push rod stop bar guide screw 5-40 x 3/8"	29-30	J-5589 Escapement verge plunger tappet, lower, push rod holder retaining strip, lower	29-30
G-159 Assembler entrance, upper, balance spring bracket dowel 3/32" x 1/4"	29	J-5590 Escapement verge plunger tappet, lower, push rod holder retaining strip, upper	29-30
G-181 Assembler entrance, upper, side plate, r.h., dowel 5/32" x 2/64"	29-30	J-5591 Assembling guide, intermediate, extension holder	29-30
G-181 Assembler entrance, upper, side plate, l.h., dowel 5/32" x 2/64"	29-30	J-5592 Assembling guide, intermediate, extension and holder, assembled	29-30
G-2852 Escapement verge plunger tappet, lower, push rod holder screw, lower, lock washer	29-30	J-5601 Escapement verge plunger tappet, lower, push rod holder (72-90)	29-30
G-2852 Escapement verge plunger tappet, lower, push rod stop bar guide screw lock washer	29-30	J-6213 Assembler entrance, upper, side plate, l.h., lower, screw	29-30
I-3207 Assembling guide, intermediate, extension holder screw, l.h. 1/4"-24 x 5/8"	29-30	J-6246 Assembler guide, intermediate, No. 1, assembled	29-30
J-223 Assembler entrance, upper, balance spring bracket screw 10-32 x 5/16"	29		
J-794 Escapement verge plunger tappet, lower, push rod retaining strip screw 4-48 x 3/8"	29-30		
J-1228 Assembler entrance, upper, balance spring hook nut 10-32 x 5/16"	30		
J-5102 Assembling guide, intermediate, extension holder	29-30		
J-5109 Assembling guide, intermediate, extension screw 3-48 x 7/32"	29-30		
J-5110 Assembling guide, intermediate, extension and holder, assembled	29-30		

Assembling Guide, Intermediate

Guide Numbers	1	2-3-4-5-6	7	8-9-10-11-12	13-14-15	16	17	18-19	20-21-22	23	24	25-26	27	28
*90 & 72-90 Character	J-5228	J-5124	J-5126	J-5126	J-5138	J-5128	J-5128	J-5128	J-5130	J-5132	J-5132	J-5134	J-5136	J-5136
*90 & 72-90 Character	J-6246	J-5124	J-5126	J-5126	J-5138	J-5128	J-5128	J-5128	J-5130	J-5132	J-5132	J-5134	J-5136	J-5136

Assembling Guide, Intermediate, Extension

Guide Numbers	1	2-3-4-5-6	7	8-9-10-11-12	13-14-15	16	17	18-19	20-21-22	23	24	25-26	27	28
*90 & 72-90 Character	J-5103	J-5104	J-5105	J-5105	J-5106	J-5106	J-5108	J-5107	J-5107	J-5107	J-5108	J-5108	J-5108	J-5108
*90 & 72-90 Character	J-5836	J-5837	J-5838	J-5838	J-5839	J-5839	J-5839	J-5840	J-5840	J-5840	J-5841	J-5841	J-5841	J-5841

*These Parts used with J-5401 or J-5402.

Please Give Model and Serial Number When Ordering



D-6654 (L.H.)



D-4831 (L.H.)



D-572

D-4808
E-1024
D-142

I-2031



G-1934



D-4964



I-4821

D-6438 (29)
D-6439 (30)

D-4792



D-1231



D-5269



D-4771



G-3398



D-4811



D-5257



D-5261



H-1438



D-4805 (L.H.)



J-1233



D-4809



D-4810



D-4804 (R.H.)



D-5260



D-5259



D-5273 (UPPER)



D-5268



D-5266



D-5262



D-5258

D-142
E-1024
D-4808

D-5274



D-5256



D-5272



D-5265



D-5267



E-947



D-974

D-5264
(UPPER (L.H.))D-5263
(UPPER (R.H.))

D-5252



D-5254 (LOWER)



D-5271



D-5251



I-2430



D-1168

Assembling Mechanism

Models 29-30

Assembler Entrance, Upper 167

D-142	Assembler entrance, upper, snubber screw 1/4"-24 x 5/6"	30	D-5264	Assembler entrance, upper, snubber cylinder cover, upper, l.h.	30
D-572	Assembler entrance, upper, fulcrum bracket, l.h., dowel 3/16" x 13/16"	29-30	D-5265	Assembler entrance, upper, snubber piston connecting rod packing	29-30
D-974	Assembler entrance, upper, snubber piston connecting rod link pin 5/32" x 1/2"	29-30	D-5266	Assembler entrance, upper, snubber piston connecting rod bushing	29-30
D-1168	Assembler entrance, upper, snubber screw 1/4"-24 x 1"	29	D-5267	Assembler entrance, upper, snubber piston connecting rod bushing lock nut 7/16"-36 x 9/16"	29-30
D-1231	Assembler entrance, upper, stop adjusting screw block screw 10-32 x 5/8"	29-30	D-5268	Assembler entrance, upper, snubber cylinder air adjusting screw	29-30
D-4771	Assembler entrance, upper, shaft	29-30	D-5269	Assembler entrance, upper, snubber piston connecting rod link	29-30
D-4792	Assembler entrance, upper, shaft collar	29-30	D-5270	Assembler entrance, upper, snubber, assembled	30
D-4804	Assembler entrance, upper, stop bracket, r.h.	29-30	D-5271	Assembler entrance, upper, snubber piston connecting rod link stud	29-30
D-4805	Assembler entrance, upper, stop bracket, l.h.	29-30	D-5272	Assembler entrance, upper, snubber piston housing	29
D-4808	Assembler entrance, upper, stop adjusting screw 1/4"-24 x 13/16"	29-30	D-5273	Assembler entrance, upper, snubber cylinder cover, upper	29
D-4809	Assembler entrance, upper, stop clamp plate	29-30	D-5274	Assembler entrance, upper, snubber, assembled	29
D-4810	Assembler entrance, upper, stop adjusting screw block	29-30	D-6438	Assembler entrance, upper, shaft	29
D-4811	Assembler entrance, upper, stop	29-30	D-6439	Assembler entrance, upper, shaft	30
D-4831	Assembler entrance, upper, fulcrum bracket, l.h.	29-30	D-6654	Assembler entrance, upper, fulcrum bracket, l.h.	29-30
D-4964	Assembler entrance, upper, shaft collar pin 3/16" x 3/16"	29-30	E-947	Assembler entrance, upper, snubber cylinder air adjusting screw lock nut 1/4"-32 x 3/8"	29-30
D-5251	Assembler entrance, upper, snubber piston housing shim	30	E-1024	Assembler entrance, upper, fulcrum bracket, l.h., screw 1/4"-24 x 3/4"	29-30
D-5252	Assembler entrance, upper, snubber piston housing	29-30	G-1934	Assembler entrance, upper, shaft collar pin	29-30
D-5254	Assembler entrance, upper, snubber cylinder cover, lower	30	G-3398	Assembler entrance, upper, stop adjusting screw lock nut 1/4"-24 x 3/8"	29-30
D-5255	Assembler entrance, upper, snubber cylinder cover, upper, screw 4-48 x 5/16"	29-30	H-1438	Assembler entrance, upper, snubber piston connecting rod pin 3/32" x 25/32"	29-30
D-5255	Assembler entrance, upper, snubber cylinder cover, lower, screw 4-48 x 5/16"	29-30	I-2031	Assembler entrance, upper, stop bracket, r.h., screw 10-32 x 1/2"	29-30
D-5256	Assembler entrance, upper, snubber cylinder air valve	29-30	I-2430	Assembler entrance, upper, snubber dowel 3/16" x 9/16"	30
D-5257	Assembler entrance, upper, snubber cylinder air valve spring	29-30	I-4821	Assembler entrance, upper, stop bracket, l.h., screw 10-32 x 5/8"	29-30
D-5258	Assembler entrance, upper, snubber cylinder air valve spring retaining washer	29-30	J-1233	Assembler entrance, upper, stop clamp plate screw 10-32 x 1/2"	29-30
D-5259	Assembler entrance, upper, snubber cylinder air valve spring retaining pin 1/32" x 3/16"	29-30			
D-5260	Assembler entrance, upper, snubber piston	29-30			
D-5261	Assembler entrance, upper, snubber piston connecting rod	29-30			
D-5262	Assembler entrance, upper, snubber cylinder cover, upper and lower, gasket	29-30			
D-5263	Assembler entrance, upper, snubber cylinder cover, upper, r.h.	30			

Please Give Model and Serial Number When Ordering



D-6464



D-6314



D-6463



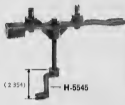
D-6143



D-5302



E-738



D-6475



B-222



D-6656



C-123



D-5369

D-977



D-6241



D-6243



D-6239



D-6267



D-6240
D-6268



J-463



E-3265



J-4791



E-377



D-159



D-6244



J-5182



D-6285



D-6242



F-202



E-27



D-6234



D-5042



I-808



I-1120



I-6673



J-1228



J-223



D-6290



D-6238



D-6269



D-6460



D-6390



D-4708



H-518



B-236



D-6237



G-119



D-5249



D-4882

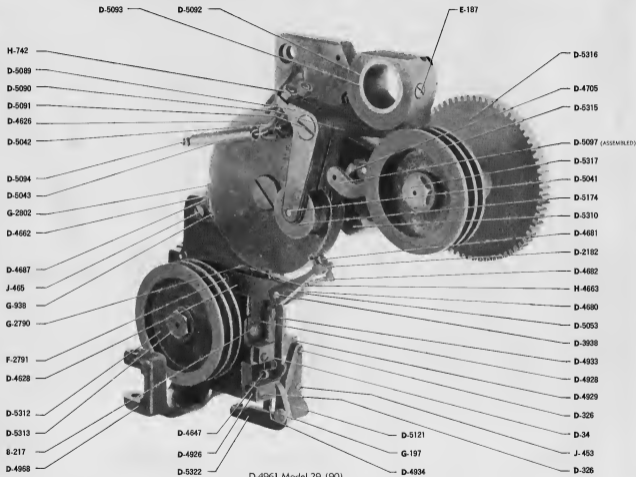
Assembling Mechanism

Models 29-30

Assembler Entrance, Upper 169

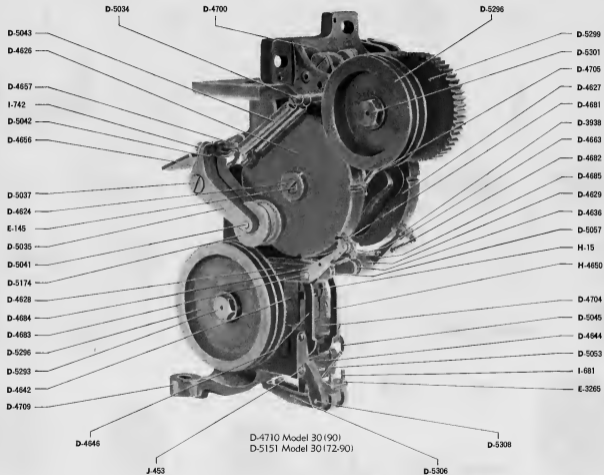
8- 222 Assembler entrance, upper, operating lever bracket dowel 1/4" x 1 3/16"	29	D-6464 Assembler entrance, upper, operating lever, assembled	29
8- 236 Assembler entrance, upper, connecting lever guard bracket screw 1/4"-24 x 1 1/4"	30	D-6475 Assembler entrance, upper, operating lever, assembled (90 character)	29
8- 236 Assembler entrance, upper, connecting lever stop screw 1/4"-24 x 1 1/4"	29-30	D-6656 Assembler entrance, upper, operating lever, assembled (90 character)	29
C- 123 Assembler entrance, upper, operating lever pin cotter pin	30	E- 27 Assembler entrance, auxiliary, upper, connecting lever stop screw 1/4"-24 x 1"	30
D- 159 Assembler entrance, upper, connecting lever guard screw 8-32 x 3/16"	30	E- 377 Assembler entrance, upper, connecting lever latch block screw 8-32 x 17/32"	29
D- 977 Assembler entrance, upper, connecting lever latch block dowel 5/32" x 7/16"	29-30	E- 738 Assembler entrance, upper, operating lever bracket screw 5/16"-18 x 7/8"	29
D-4708 Assembler entrance, upper, connecting lever dowel	29	E-3265 Assembler entrance, upper, lever collar set screw nut	29
D-4708 Assembler entrance, upper, connecting lever pin 3/18" x 1"	29-30	E-3265 Assembler entrance, upper, connecting lever pin nut 8-32 x 1/8"	30
D-4708 Assembler entrance, upper, operating lever dowel	29	E-3265 Assembler entrance, upper, connecting lever latch block screw nut 8-32 x 1/8"	29
D-4862 Assembler entrance, upper, connecting lever guard	30	F- 202 Assembler entrance, upper, lever collar set screw 1/4"-24 x 3/8"	29
D-5042 Assembler entrance, upper, connecting lever spring hook	29-30	G- 119 Assembler entrance, upper, connecting lever spring link bracket screw 6-48 x 1/4"	29
D-5249 Assembler entrance, upper, connecting lever	29-30	H- 518 Assembler entrance, upper, connecting lever stop screw bracket screw 5/16"-18 x 3/4"	30
D-5302 Assembler entrance, upper, operating lever pin	30	H-5545 Keyboard spaceband rod link lever operating lever (90 character)	29
D-6143 Assembler entrance, upper, operating lever	29	H-5696 Keyboard spaceband rod link lever operating lever (90 character)	29
D-6234 Assembler entrance, upper, connecting lever latch block, assembled	29	I- 808 Assembler entrance, upper, connecting lever spring	28-30
D-6237 Assembler entrance, upper, connecting lever, assembled	28	I-1120 Assembler entrance, upper, connecting lever stop screw bracket dowel	30
D-6238 Assembler entrance, upper, connecting lever spring link, assembled	29	I-6673 Assembler entrance, upper, connecting lever spring link stud nut 8-32 x 7/64"	30
D-6239 Assembler entrance, upper, lever collar	29	J- 223 Assembler entrance, upper, connecting lever guard screw 10-32 x 5/16"	30
D-6240 Assembler entrance, upper, lever	29	J- 463 Assembler entrance, upper, connecting lever stop screw nut	30
D-6241 Assembler entrance, upper, lever roll	29-30	J- 463 Assembler entrance, upper, lever stud nut	29
D-6242 Assembler entrance, upper, lever roll stud	28-30	J-1228 Assembler entrance, upper, connecting lever spring hook nut	29-30
D-6243 Assembler entrance, upper, lever stud washer	29-30	J-4791 Assembler entrance, upper, lever stud nut 1/4"-24 x 7/8"	30
D-6244 Assembler entrance, upper, lever stop	29	J-5182 Assembler entrance, auxiliary, upper, connecting lever stop screw lock nut	30
D-6267 Assembler entrance, upper, lever collar	30	J-5182 Assembler entrance, upper, connecting lever stop screw lock nut	29-30
D-6268 Assembler entrance, upper, lever	30		
D-6268 Assembler entrance, upper, lever	30		
D-6285 Assembler entrance, upper, lever stud nut	30		
D-6289 Assembler entrance, upper, connecting lever spring link	30		
D-6290 Assembler entrance, upper, connecting lever spring link stud	30		
D-6314 Assembler entrance, upper, lever collar pin	30		
D-6314 Assembler entrance, upper, connecting lever pin	30		
D-6369 Assembler entrance, upper, connecting lever stop screw bracket, assembled	30		
D-6390 Assembler entrance, upper, connecting lever, assembled	30		
D-6460 Assembler entrance, upper, connecting lever guard	30		
D-6463 Assembler entrance, upper, operating lever stud 1/2" x 5 1/8"	29		

Please Give Model and Serial Number When Ordering



D-4961 Model 29 (90)
D-5152 Model 29 (72-90)

Check Ports by Referring to Detail Pages.



Check Parts by Referring to Detail Pages.



Assembling Mechanism

Model 29

Assembler Entrance, Upper, Shift 173

C- 297 Assembler entrance, upper, shift driving belt tightening lever fulcrum stud nut 5/16"-18 x 1/2"	29	D-5295 Assembler entrance, upper, finger key shift intermediate drive shaft pulley key	29
D- 326 Assembler entrance, upper, finger key lever extension bracket screw, upper 8-32 x 3/4"	29	D-5295 Assembler entrance, upper, finger key shift roll shaft pulley key	29
D- 331 Assembler entrance, upper, finger key lever bracket support dowel 1/8" x 9/16"	29	D-5298 Assembler entrance, upper, finger key shift roll shaft nut 3/8"-16 x 11/16"	29
D- 584 Assembler entrance, upper, finger key lever bracket support screw 1/2"-24 x 1/2"	29	D-5311 Assembler entrance, upper, finger key shift roll	29
D- 584 Assembler entrance, upper, finger key shift bracket supporting bearing screw 1/4"-24 x 1/2"	29	D-5312 Assembler entrance, upper, finger key shift roll shaft pulley	29
D-4877 Assembler entrance, upper, finger shift roll shaft bushing, l.h.	29	D-5313 Assembler entrance, upper, finger key shift roll shaft	29
D-4877 Assembler entrance, upper, finger key shift intermediate driving gear shaft bushing	29	D-5314 Assembler entrance, upper, finger key shift roll spacing washer	29
D-4968 Assembler entrance, upper, finger key lever bracket support	29	D-5315 Assembler entrance, upper, finger key shift intermediate drive shaft pulley	29
D-5041 Assembler entrance, upper, shift driving belt tightening pulley stud	29	D-5316 Assembler entrance, upper, shift intermediate driving gear	29
D-5042 Assembler entrance, upper, shift driving belt tightening spring hook	29	D-5317 Assembler entrance, upper, shift intermediate driving gear shaft	29
D-5043 Assembler entrance, upper, shift driving belt tightening spring	29	D-5321 Assembler entrance, upper, finger key lever extension bracket	29
D-5089 Assembler entrance, upper, shift driving belt tightening lever, r.h.	29	D-5322 Assembler entrance, upper, finger key lever extension	29
D-5090 Assembler entrance, upper, shift driving belt tightening lever, l.h.	29	E- 187 Assembler entrance, upper, finger key shift bracket supporting bushing retaining screw	29
D-5091 Assembler entrance, upper, shift driving belt tightening lever fulcrum stud	29	E-2746 Assembler entrance, upper, shift intermediate driving gear shaft washer	29
D-5092 Assembler entrance, upper, finger key shift bracket supporting bearing	29	E-2746 Assembler entrance, upper, finger key shift roll shaft washer	29
D-5093 Assembler entrance, upper, finger key shift bracket supporting bearing bushing	29	G- 197 Assembler entrance, upper, finger key lever extension fulcrum stud	29
D-5094 Assembler entrance, upper, shift driving belt tightening spring stud	29	H- 742 Assembler entrance, upper, finger key shift cover supporting bracket lock nut 10-32 x 3/8"	29
D-5096 Assembler entrance, upper, finger key shift cover supporting bracket stud	29	H- 742 Assembler entrance, upper, shift driving belt tightening spring hook nut 10-32 x 3/8"	29
D-5097 Assembler entrance, upper, finger key shift cover supporting bracket, assembled	29	I- 186 Assembler entrance, upper, shift intermediate driving gear shaft nut 3/8"-16 x 5/8"	29
D-5174 Assembler entrance, upper, shift driving belt tightening pulley	29	J- 136 Assembler entrance, upper, finger key shift cover supporting bracket stud nut pin 1/16" x 1/2"	29
D-5291 Assembler entrance, upper, finger key shift roll shaft bushing, r.h.	29	J- 453 Assembler entrance, upper, finger key lever extension bracket screw, lower 8-32 x 1 1/4"	29
D-5294 Assembler entrance, upper, shift intermediate driving gear key	29		
D-5294 Assembler entrance, upper, finger key shift roll key	29		

Parts Not Illustrated

D-4887 Assembler entrance, upper, finger key shift bracket	29
D-4961 Assembler entrance, upper, finger key shift bracket, assembled (90 character)	29
D-5152 Assembler entrance, upper, finger key shift bracket, assembled (72-90 character)	29

Please Give Model and Serial Number When Ordering



D-4622



I-4525



D-4616



D-30



E-3265



D-4617 (R.H.)



G-2790



D-4618



G-2802



D-4705



E-2878



D-4615



G-1213



D-802



E-3816



D-5208



D-4619



D-4928



B-217



G-357



D-5228



D-159



D-5309



J-176



J-5496



D-85



D-5282



D-5284



D-5283



D-4658



D-4639



D-4688



D-4930



D-34



E-175



D-239



D-4929



H-15

D-4926
(LOWER)

D-4934



D-4935



D-326

Assembling Mechanism
Model 29
Assembler Entrance, Upper, Shift 175

8- 217 Assembler entrance, upper, finger key shift roll cam yoke guide plate screw 8-32 x 1/4"	29	D-4928 Assembler entrance, upper, finger key shift roll cam yoke guide plate	29
D- 30 Assembler entrance, upper, finger key shift ratchet pawl stud set screw 8-32 x .333"	29	D-4929 Assembler entrance, upper, finger key shift cam yoke trigger bracket	29
D- 34 Assembler entrance, upper, finger key shift roll cam yoke hinge bracket screw 8-32 x 1/2"	29	D-4930 Assembler entrance, upper, finger key shift ratchet operating rod bracket	29
D- 34 Assembler entrance, upper, finger key shift cam yoke trigger bracket screw 8-32 x 1/2"	29	D-4934 Assembler entrance, upper, finger key bar rod	29
D- 85 Assembler entrance, upper, finger key shift cam yoke screw 4-48 x 3/16"	29	D-4935 Assembler entrance, upper, finger key bar rod, assembled	29
D- 159 Assembler entrance, upper, finger key shift roll cam stop pin retainer screw 8-32 x 3/16"	29	D-5208 Assembler entrance, upper, finger key shift ratchet pawl collar	29
D- 239 Assembler entrance, upper, finger key shift roll cam yoke hinge bracket dowel 3/32" x 3/8"	29	D-5228 Assembler entrance, upper, finger key shift roll cam safety stop	29
D- 239 Assembler entrance, upper, finger key shift cam yoke trigger bracket dowel 3/32" x 3/8"	29	D-5282 Assembler entrance, upper, finger key shift roll cam yoke	29
D- 326 Assembler entrance, upper, finger key bar rod guide, lower, screw 8-32 x 3/4"	29	D-5283 Assembler entrance, upper, finger key shift roll cam and pin, assembled	29
D- 326 Assembler entrance, upper, finger key shift ratchet operating rod bracket screw 8-32 x 3/4"	29	D-5284 Assembler entrance, upper, finger key shift roll cam yoke, assembled	29
D- 802 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe adjusting screw lock nut 8-32 x 1/8"	29	D-5309 Assembler entrance, upper, finger key shift roll cam yoke hinge bracket	29
D-4615 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe	29	E- 175 Assembler entrance, upper, finger key shift roll cam yoke trigger hinge pin 1/16" x 7/16"	29
D-4616 Assembler entrance, upper, finger key shift ratchet pawl, r.h., stud	29	E-2878 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe screw 8-32 x 5/8"	29
D-4617 Assembler entrance, upper, finger key shift ratchet pawl, r.h.	29	E-3265 Assembler entrance, upper, finger key shift ratchet pawl stud set screw lock nut	29
D-4618 Assembler entrance, upper, finger key shift ratchet pawl, r.h., spring	29	E-3816 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe screw lock washer	29
D-4619 Assembler entrance, upper, finger key shift ratchet pawl collar, assembled	29	G- 357 Assembler entrance, upper, finger key shift roll cam yoke guide plate dowel 3/32" x .181"	29
D-4622 Assembler entrance, upper, finger key shift ratchet wheel	29	G-1213 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe adjusting screw 8-32 x 11/16"	29
D-4639 Assembler entrance, upper, finger key shift roll cam stop pin	29	G-2790 Assembler entrance, upper, finger key shift ratchet pawl, r.h., eye	29
D-4658 Assembler entrance, upper, finger key shift roll cam stop pin retainer	29	G-2802 Assembler entrance, upper, finger key shift ratchet pawl spring eye	29
D-4688 Assembler entrance, upper, finger key shift ratchet operating rod	29	H- 15 Assembler entrance, upper, finger key shift roll cam yoke trigger	29
D-4705 Assembler entrance, upper, finger key shift ratchet pawl collar, spring	29	I-4525 Assembler entrance, upper, finger key shift ratchet wheel key	29
D-4926 Assembler entrance, upper, finger key bar rod guide, lower	29	J- 176 Assembler entrance, upper, finger key shift roll cam yoke hinge pin 1/8" x 9/16"	29
		J-5498 Assembler entrance, upper, finger key shift roll cam yoke screw lock washer	29

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Model 29

Assembler Entrance, Upper, Shift 177

D- 239	Assembler entrance, upper, finger key shift operating cam pawl bracket dowel 3/32" x 3/8"	29
D- 331	Keyboard rod lever slide operating cam support bracket dowel 1/8" x 9/16"	29
D-2182	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever pin 3/32" x 15/32"	29
D-2182	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever shaft pin 3/32" x 15/32"	29
D-2920	Assembler entrance, upper, finger key shift operating cam pawl, front, spring stud	29
D-3938	Assembler entrance, upper, finger key shift operating cam pawl, rear, latch pin 3/32" x 15/32"	29
D-4626	Assembler entrance, upper, finger key shift operating cam	29
D-4628	Assembler entrance, upper, finger key shift operating cam pawl bracket	29
D-4647	Assembler entrance, upper, shift operating cam pawl, rear, connecting link hinge rivet	29
D-4662	Assembler entrance, upper, finger key shift operating cam pawl, front, spring	29
D-4663	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever spring	29
D-4680	Assembler entrance, upper, finger key shift operating cam pawl, rear	29
D-4681	Assembler entrance, upper, finger key shift operating cam pawl, rear, latch	29
D-4682	Assembler entrance, upper, finger key shift operating cam pawl, rear, latch spring	29
D-4683	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever shaft	29
D-4684	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever and shaft, assembled	29
D-4687	Assembler entrance, upper, finger key shift operating cam pawl, front	29
D-4933	Assembler entrance, upper, shift operating cam pawl, rear, connecting link	29
D-4936	Assembler entrance, upper, finger key shift operating cam stud	29
D-5057	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever	29
D-5154	Assembler entrance, upper, finger key shift operating cam roll	29
D-5310	Assembler entrance, upper, finger key shift operating cam roll and connecting link lever	29
D-5319	Assembler entrance, upper, finger key shift operating cam roll and connecting link lever shaft	29
D-5320	Assembler entrance, upper, finger key shift operating cam roll stud	29
F-2445	Assembler entrance, upper, finger key shift operating cam roll stud lock washer	29
F-2791	Assembler entrance, upper, finger key shift operating cam pawl bracket screw 1/4"-24 x 3/8"	29
G- 938	Assembler entrance, upper, finger key shift operating cam pawl, front, spring stud	29
G-1934	Assembler entrance, upper, finger key shift operating cam roll and connecting link pin 5/32" x .836"	29
G-2790	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever spring eye	29
G-2790	Assembler entrance, upper, finger key shift operating cam pawl latch spring eye	29
G-2802	Assembler entrance, upper, finger key shift operating cam pawl, front, spring eye	29
H- 742	Assembler entrance, upper, finger key shift operating cam roll stud lock nut 10-32 x 3/8"	29
H-1124	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever set screw 4-48 x 1/8"	29
I- 186	Assembler entrance, upper, finger key shift operating cam stud nut 3/8"-16 x 5/8"	29
J- 465	Assembler entrance, upper, finger key shift operating cam pawl, front, fulcrum screw	29
J-1784	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever connecting screw	29

Please Give Model and Serial Number When Ordering



D-5306



D-5308



J-453



I-881



E-9



D-326



D-5036 (L.H.)



D-5037



D-5035 (R.H.)



D-5034



D-5042



E-2746



I-4881



C-297



D-5292



D-5174



D-4700



A-112



D-584



E-3265



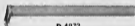
H-742



D-5041



D-4676 (LOWER)



D-4872



D-4702



D-4709



D-4664



D-1535



D-5307



D-5291



G-240



D-4877



D-5295



D-5294



D-5295



D-5297



D-4876



D-5300



D-5299



D-5293



D-5298



D-5301

A- 112	Assembler entrance, upper, connecting link lever, lower, shaft screw 8-32 x 3/8"	30	D-5293	Assembler entrance, upper, finger key shift roll shaft	30
C- 297	Assembler entrance, upper, shift driving belt tightening lever fulcrum stud nut 5/16"-18 x 1/2"	30	D-5294	Assembler entrance, upper, shift intermediate driving gear key	30
D- 326	Assembler entrance, upper, finger key lever extension bracket screw, upper 8-32 x 3/4"	30	D-5294	Assembler entrance, upper, finger key shift roll key	30
D- 584	Assembler entrance, upper, finger key shift bracket supporting bearing screw 1/4"-24 x 1/2"	30	D-5295	Assembler entrance, upper, finger key shift intermediate drive shaft pulley key	30
D-1535	Assembler entrance, upper, finger key lever extension fulcrum pin set screw 8-32 x 3/16"	30	D-5295	Assembler entrance, upper, finger key shift roll shaft pulley key	30
D-4664	Assembler entrance, upper, finger key shift connecting link stud, upper	30	D-5296	Assembler entrance, upper, finger key shift roll shaft pulley	30
D-4676	Assembler entrance, upper, connecting link lever, lower	30	D-5297	Assembler entrance, upper, finger key shift roll spacing washer	30
D-4700	Assembler entrance, upper, shift intermediate driving gear bracket	30	D-5298	Assembler entrance, upper, shift intermediate driving gear shaft nut	30
D-4702	Assembler entrance, auxiliary, upper, connecting link lever, lower	30	D-5298	Assembler entrance, upper, finger key shift roll shaft nut 3/8"-18 x 11/16"	30
D-4709	Pi stacker support pivoting bracket	30	D-5299	Assembler entrance, upper, shift intermediate driving gear	30
D-4872	Assembler entrance, upper, connecting link lever, lower, shaft, assembled	30	D-5300	Assembler entrance, upper, finger key shift intermediate drive shaft pulley	30
D-4876	Assembler entrance, upper, finger key shift roll shaft bushing, l.h.	30	D-5301	Assembler entrance, upper, shift intermediate driving gear shaft	30
D-4877	Assembler entrance, upper, finger key shift intermediate driving gear shaft bushing	30	D-5306	Assembler entrance, upper, finger key lever extension bracket	30
D-4877	Assembler entrance, upper, shift intermediate driving gear shaft bushing, l.h.	30	D-5307	Assembler entrance, upper, finger key lever extension	30
D-5034	Assembler entrance, upper, shift driving belt tightening spring stud	30	D-5308	Assembler entrance, upper, finger key lever extension fulcrum pin 3/16" x 1 3/8"	30
D-5035	Assembler entrance, upper, shift driving belt tightening lever, r.h.	30	E- 9	Pi stacker support pivoting bracket screw 1/4"-24 x 7/8"	30
D-5036	Assembler entrance, upper, shift driving belt tightening lever, l.h.	30	E-2746	Assembler entrance, upper, shift intermediate driving gear shaft washer	30
D-5037	Assembler entrance, upper, shift driving belt tightening lever fulcrum stud	30	E-2746	Assembler entrance, upper, finger key shift roll shaft washer	30
D-5041	Assembler entrance, upper, shift driving belt tightening pulley stud	30	E-3265	Assembler entrance, upper, finger key lever extension stop screw lock nut 8-32 x 1/4"	30
D-5042	Assembler entrance, upper, shift driving belt tightening spring hook	30	G- 240	Pi stacker support pivoting bracket dowel 3/16" x 3/4"	30
D-5174	Assembler entrance, upper, shift driving belt tightening pulley	30	H- 742	Assembler entrance, upper, finger key shift operating cam roll stud lock nut	30
D-5291	Assembler entrance, upper, finger key shift roll shaft bushing, r.h.	30	H- 742	Assembler entrance, upper, shift driving belt tightening spring hook nut	30
D-5291	Assembler entrance, upper, shift intermediate driving gear shaft bushing, r.h.	30	I- 681	Assembler entrance, upper, finger key lever extension stop screw 8-32 x 11/16"	30
D-5292	Assembler entrance, upper, finger key shift roll	30	I-4881	Assembler entrance, upper, shift driving belt tightening lever fulcrum stud washer	30
			J- 453	Assembler entrance, upper, finger key lever extension bracket screw, lower 8-32 x 1 1/4"	30
			<u>Parts Not Illustrated</u>		
			D-4699	Assembler entrance, upper, finger key shift bracket	30
			D-4710	Assembler entrance, upper, finger key shift bracket, assembled (90)	30
			D-5151	Assembler entrance, upper, finger key shift bracket, assembled (72-90)	30

Please Give Model and Serial Number When Ordering



D-4648 (R.H.)
D-4651 (L.H.)



D-4645 (R.H.)
D-4649 (L.H.)



D-4644 (LOWER)



D-5047



D-5052



D-5046



D-5053



D-5054



D-4639 (L.H.)



D-4638 (R.H.)



G-357



D-5432



D-4642



D-5051



D-5048



D-5049



D-5045



D-5285



D-4704



D-159



D-34



D-326



D-4658



G-532



H-15



G-374



D-4657



H-177



D-239



D-4656



B-217



D-5276



D-5277



D-5278



D-5280 (R.H.)
D-5283 (L.H.)



D-5275 (R.H.)
D-5282 (L.H.)



D-5228



J-5498



D-35



D-5281 (R.H.)
D-5284 (L.H.)

Assembling Mechanism

Model 30

Assembler Entrance, Upper, Shift 181

B- 217 Assembler entrance, upper, finger key shift roll cam yoke guide plate screw 8-32 x 1/4"	30	D-5049 Assembler entrance, upper, finger key bar rod latch lever spacing collar	30
D- 34 Assembler entrance, upper, finger key shift roll cam yoke hinge bracket screw 8-32 x 1/2"	30	D-5051 Assembler entrance, upper, finger key bar rod latch rivet	30
D- 34 Assembler entrance, upper, finger key shift cam yoke trigger bracket screw 8-32 x 1/2"	30	D-5052 Assembler entrance, upper, finger key bar rod latch spring stud	30
D- 85 Assembler entrance, upper, finger key shift cam yoke screw 4-48 x 3/16"	30	D-5053 Assembler entrance, upper, finger key bar rod latch spring	30
D- 159 Assembler entrance, upper, finger key shift roll cam stop pin retainer screw 8-32 x 3/16"	30	D-5054 Assembler entrance, upper, finger key bar rod latch, assembled	30
D- 239 Assembler entrance, upper, finger key shift roll cam yoke hinge bracket dowel	30	D-5228 Assembler entrance, upper, finger key shift roll cam safety stop	30
D- 239 Assembler entrance, upper, finger key shift cam yoke trigger bracket dowel 3/32" x 3/8"	30	D-5275 Assembler entrance, upper, finger key shift roll cam yoke, r.h.	30
D- 326 Assembler entrance, upper, finger key bar rod guide, lower, screw 8-32 x 3/4"	30	D-5276 Assembler entrance, upper, finger key shift roll cam stud	30
D-4638 Assembler entrance, upper, finger key shift roll cam stop pin, r.h.	30	D-5277 Assembler entrance, upper, finger key shift roll cam ball bearing	30
D-4639 Assembler entrance, upper, finger key shift roll cam stop pin, l.h.	30	D-5278 Assembler entrance, upper, finger key shift roll cam ball bearing spacer	30
D-4642 Assembler entrance, upper, finger key shift roll cam yoke guide plate	30	D-5280 Assembler entrance, upper, finger key shift roll cam, and pin, r.h., assembled	30
D-4644 Assembler entrance, upper, finger key bar rod guide, lower	30	D-5281 Assembler entrance, upper, finger key shift roll cam yoke, r.h., assembled	30
D-4645 Assembler entrance, upper, finger key bar rod, r.h.	30	D-5282 Assembler entrance, upper, finger key shift roll cam yoke, l.h.	30
D-4648 Assembler entrance, upper, finger key bar rod, r.h., assembled	30	D-5283 Assembler entrance, upper, finger key shift roll cam and pin, l.h., assembled	30
D-4649 Assembler entrance, upper, finger key bar rod, l.h.	30	D-5284 Assembler entrance, upper, finger key shift roll cam yoke, l.h., assembled	30
D-4651 Assembler entrance, upper, finger key bar rod, l.h., assembled	30	D-5285 Assembler entrance, upper, finger key shift roll cam yoke hinge bracket	30
D-4656 Assembler entrance, upper, finger key shift roll cam bracket cover	30	D-5432 Assembler entrance, upper, finger key shift roll cam yoke hinge pin 1/8" x 1 1/8"	30
D-4657 Assembler entrance, upper, finger key shift roll cam bracket cover hinge	30	G- 357 Assembler entrance, upper, finger key shift roll cam yoke guide plate dowel 3/32" x .151"	30
D-4658 Assembler entrance, upper, finger key shift roll cam stop pin retainer	30	G- 357 Assembler entrance, upper, finger key bar rod latch lever bracket dowel 3/32" x .151"	30
D-4704 Assembler entrance, upper, finger key shift cam yoke trigger bracket	30	G- 374 Assembler entrance, upper, finger key shift roll cam yoke trigger hinge pin 1/16" x 1 5/32"	30
D-5045 Assembler entrance, upper, finger key bar rod latch lever bracket	30	G- 532 Assembler entrance, upper, finger key shift roll cam pin 3/32" x 15/32"	30
D-5046 Assembler entrance, upper, finger key bar rod latch lever	30	H- 15 Assembler entrance, upper, finger key shift roll cam yoke trigger stop	30
D-5047 Assembler entrance, upper, finger key bar rod latch	30	H- 177 Assembler entrance, upper, finger key shift roll cam bracket cover hinge set screw 8-32 x 1/4"	30
D-5048 Assembler entrance, upper, finger key bar rod latch lever rivet	30	J-5498 Assembler entrance, upper, finger key shift roll cam yoke screw lock washer	30

Please Give Model and Serial Number When Ordering



G-3078



J-1228



G-3398



D-4641



E-1654



F-2445



E-3265



D-5287

D-5286 (R.H.)
D-5290 (L.H.)

D-4659 (L.H.)

D-5285 (R.H.)
D-5289 (L.H.)

D-5155



D-5044 (R.H.)



E-145



D-4624



D-4623



D-1765



D-5106

D-4628 (R.H.)
D-4629 (L.H.)

D-239

D-4625 (R.H.)
D-4627 (L.H.)

H-3949



I-1276



H-3938



D-2182



F-2791



I-4625



D-331

D-4690
(REAR)

D-4683



D-4685 (L.H.)



D-4684 (R.H.)



D-4663

D-4635 (L.H.)
D-5057 (R.H.)

H-1124



J-1784

D-4646 (R.H.)
D-4650 (L.H.)

J-465

D-4687
(FRONT)

G-938



G-2802



D-3938



G-2790



D-4647



D-4682



D-4681



D-4682

Assembling Mechanism

Model 30

Assembler Entrance, Upper, Shift 183

D-239	Assembler entrance, upper, finger key shift operating cam pawl bracket dowel 3/32" x 3/8"	30	D-5057	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever, r.h.	30
D-331	Keyboard rod lever shoe operating cam supporting bracket dowel 1/2" x 9/16"	30	D-5106	Assembler entrance, upper, finger key shift operating cam shaft	30
D-1765	Assembler entrance, upper, finger key shift operating cam shaft set screw 10-32 x 3/4"	30	D-5155	Assembler entrance, upper, finger key shift operating cam roll lever stud set screw 8-32 x 7/16"	30
D-2182	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever shaft pin 9/32" x 15/32"	30	D-5286	Assembler entrance, upper, finger key shift operating cam roll lever, r.h.	30
D-2182	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever pin 3/32" x 15/32"	30	D-5287	Assembler entrance, upper, finger key shift operating cam roll lever, roll	30
D-3938	Assembler entrance, upper, finger key shift operating cam pawl, rear, latch pin 3/32" x 15/32"	30	D-5288	Assembler entrance, upper, finger key shift operating cam roll lever, r.h., assembled	30
D-4623	Assembler entrance, upper, finger key shift operating cam shaft	30	D-5289	Assembler entrance, upper, finger key shift operating cam roll lever, l.h.	30
D-4624	Assembler entrance, upper, finger key shift operating cam retaining washer	30	D-5290	Assembler entrance, upper, finger key shift operating cam roll lever, l.h., assembled	30
D-4626	Assembler entrance, upper, finger key shift operating cam, r.h.	30	E-145	Assembler entrance, upper, finger key shift operating cam retaining washer screw 14-24 x 1/2"	30
D-4627	Assembler entrance, upper, finger key shift operating cam, l.h.	30	E-1654	Assembler entrance, upper, finger key shift operating cam roll lever link stud, upper, lock washer	30
D-4628	Assembler entrance, upper, finger key shift operating cam pawl bracket, r.h.	30	E-3265	Assembler entrance, upper, finger key shift operating cam roll lever stud set screw lock nut 8-32 x 1/4"	30
D-4629	Assembler entrance, upper, finger key shift operating cam pawl bracket, l.h.	30	F-2445	Assembler entrance, upper, finger key shift operating cam roll lever link lock washer	30
D-4636	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever, l.h.	30	F-2791	Assembler entrance, upper, finger key shift operating cam pawl bracket screw	30
D-4641	Assembler entrance, upper, finger key shift operating cam roll lever link	30	G-938	Assembler entrance, upper, finger key shift operating cam pawl, front, spring stud	30
D-4646	Assembler entrance, upper, shift operating cam pawl, rear, connecting link, r.h.	30	G-2790	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever spring eye	30
D-4647	Assembler entrance, upper, shift operating cam pawl, rear, connecting link hinge rivet	30	G-2790	Assembler entrance, upper, finger key shift operating cam pawl, rear, latch spring eye	30
D-4650	Assembler entrance, upper, shift operating cam pawl, rear, connecting link, l.h.	30	G-2802	Assembler entrance, upper, finger key shift operating cam pawl, front, spring eye	30
D-4659	Assembler entrance, upper, finger key shift operating cam roll lever stud, l.h.	30	G-3078	Assembler entrance, upper, finger key shift operating cam roll lever link retaining washer	30
D-4662	Assembler entrance, upper, finger key shift operating cam pawl, front, spring	30	G-3398	Assembler entrance, upper, finger key shift operating cam roll lever link stud, upper, lock nut 1/4"-24 x 9/8"	30
D-4663	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever spring	30	H-1124	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever, r.h. and l.h., set screw 4-48 x 1/8"	30
D-4680	Assembler entrance, upper, finger key shift operating cam pawl, rear	30	H-3938	Keyboard rod lever slide operating cam supporting bracket	30
D-4681	Assembler entrance, upper, finger key shift operating cam pawl, rear, latch	30	H-3949	Keyboard rod lever slide operating cam	30
D-4682	Assembler entrance, upper, finger key shift operating cam pawl, rear, latch spring	30	I-1276	Keyboard rod lever slide operating cam supporting bracket screw 10-32 x 5/8"	30
D-4683	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever shaft	30	I-4525	Keyboard rod lever slide operating cam key	30
D-4684	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever and shaft, r.h., assembled	30	J-465	Assembler entrance, upper, finger key shift operating cam pawl, front, fulcrum screw	30
D-4685	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever and shaft, l.h., assembled	30	J-1228	Assembler entrance, upper, finger key shift operating cam roll lever link lock nut 10-32 x 5/16"	30
D-4687	Assembler entrance, upper, finger key shift operating cam pawl, front	30	J-1784	Assembler entrance, upper, finger key shift operating cam pawl, rear, lever connecting screw	30
D-5044	Assembler entrance, upper, finger key shift operating cam roll lever stud, r.h.	30			

Please Give Model and Serial Number When Ordering



D-4630 (L.H.)



D-4622 (R.H.)



D-4688



D-4643



D-5105 (L.H.)



I-4525



D-4620 (L.H.)



D-5208 (R.H.)



D-5209 (L.H.)



D-4617 (R.H.)



D-326



G-2802



D-4618



G-666



D-4621 (L.H.)



D-4619 (R.H.)



D-4705



G-2790



D-4616



D-30



E-3255



D-4615



E-2878



E-3816



D-802



G-1213

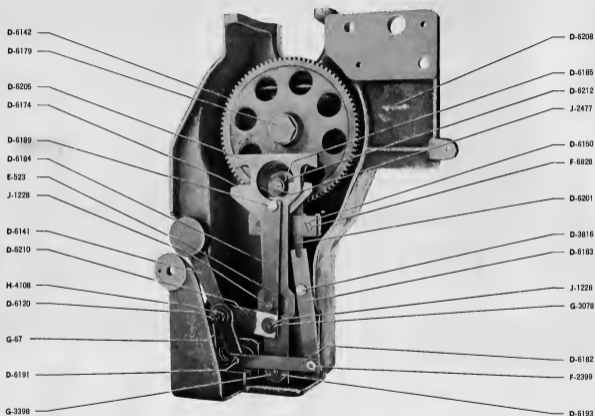
Assembling Mechanism

Model 30

Assembler Entrance, Upper, Shift 185

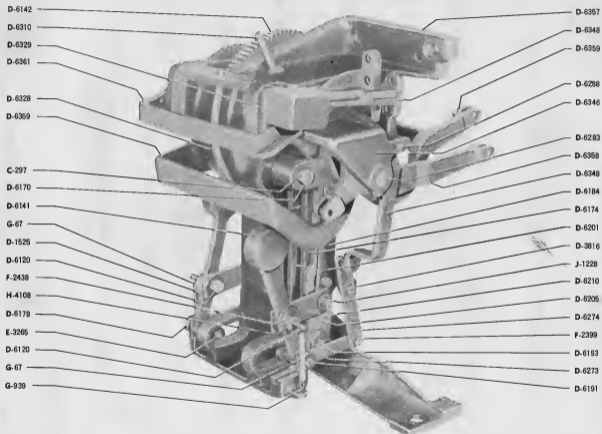
D- 30 Assembler entrance, upper, finger key shift ratchet pawl stud set screw 8-32 x .333"	30	D-4705 Assembler entrance, upper, finger key shift ratchet pawl collar, spring	30
D- 326 Assembler entrance, upper, finger key shift ratchet operating rod bracket screw 8-32 x 3/4"	30	D-5105 Assembler entrance, upper, finger key shift ratchet wheel, l.h.	30
D- 802 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe adjusting screw lock nut 8-32 x 5/16"	30	D-5208 Assembler entrance, upper, finger key shift ratchet pawl collar, r.h.	30
D-4615 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe	30	D-5209 Assembler entrance, upper, finger key shift ratchet pawl collar, l.h.	30
D-4616 Assembler entrance, upper, finger key shift ratchet pawl, r.h., stud	30	E-2878 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe screw 8-32 x 5/8"	30
D-4616 Assembler entrance, upper, finger key shift ratchet pawl, l.h., stud	30	E-3265 Assembler entrance, upper, finger key shift ratchet pawl stud set screw lock nut	30
D-4617 Assembler entrance, upper, finger key shift ratchet pawl, r.h.	30	E-3816 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe screw lock washer	30
D-4618 Assembler entrance, upper, finger key shift ratchet pawl, r.h., spring	30	G- 666 Assembler entrance, upper, finger key shift ratchet pawl collar spring stud	30
D-4618 Assembler entrance, upper, finger key shift ratchet pawl, l.h., spring	30	G-1213 Assembler entrance, upper, finger key shift ratchet pawl collar adjusting shoe adjusting screw 8-32 x 11/16"	30
D-4619 Assembler entrance, upper, finger key shift ratchet pawl collar, r.h., assembled	30	G-2790 Assembler entrance, upper, finger key shift ratchet pawl, r.h., eye	30
D-4620 Assembler entrance, upper, finger key shift ratchet pawl, l.h.	30	G-2790 Assembler entrance, upper, finger key shift ratchet pawl, l.h., eye	30
D-4621 Assembler entrance, upper, finger key shift ratchet pawl collar, l.h., assembled	30	G-2802 Assembler entrance, upper, finger key shift ratchet pawl, l.h., spring eye	30
D-4622 Assembler entrance, upper, finger key shift ratchet wheel, r.h.	30	G-2802 Assembler entrance, upper, finger key shift ratchet pawl, r.h., spring eye	30
D-4630 Assembler entrance, upper, finger key shift ratchet wheel, l.h.	30	I-4525 Assembler entrance, upper, finger key shift ratchet wheel key	30
D-4643 Assembler entrance, upper, finger key shift ratchet operating rod bracket	30		
D-4688 Assembler entrance, upper, finger key shift ratchet operating rod 30			

Please Give Model and Serial Number When Ordering



D-6260 Model 29 (4) (90)
Model 29 (4) (72-90)

Check Parts by Referring to Detail Pages.



D-6366 Model 30 (4) (90)
Model 30 (4) (72-90)

Check Parts by Referring to Detail Pages.



D-6142



E-2746



I-5508



D-6179



E-3816



F-2399



D-3616



D-532



D-6183



E-3819



G-240



D-6216



D-6185



D-6212



D-6174



G-3998



D-6190



D-6183



D-6205

D-6258



D-6189



D-6200



D-6151



D-6176



D-6201



D-3044



J-2477



D-6209



H-4108



D-6210



D-6177



D-6147



F-6828



D-6150



D-6141



G-67



G-939



D-6120



D-6178



D-1525



E-3265



G-1398



F-2436



D-6191



E-2592



D-6187



E-523



D-6182



D-6186



J-1228



G-3078



D-6184



D-6188



D-6259

Assembling Mechanism

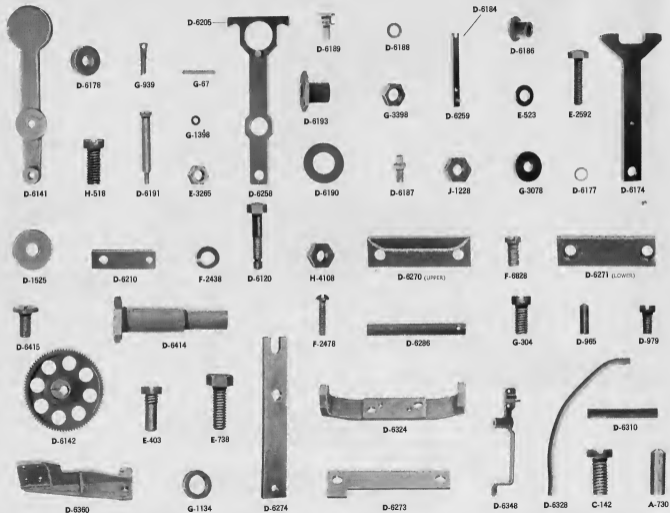
Model 29

Assembler Entrance, Upper, Shifter 189

C- 42	Assembler entrance, upper, shifter bracket screw 3/8"-18 x 7/8"	29	D-6259	Assembler entrance, upper, pusher plate helper lever, assembled	29
C- 141	Assembler entrance, upper, shifter bracket dowel 1/4" x 19/18"	29	E- 523	Assembler entrance, upper, pusher plate helper lever bushing screw nut washer	29
D- 532	Assembler entrance, upper, shifter key lever connection stud	29	E-2592	Assembler entrance, upper, pusher plate helper lever bushing screw 10-32 x 31/32"	29
D-1525	Assembler entrance, upper, pusher plate and weight lever link screw washer	29	E-2746	Assembler entrance, upper, shifter gear, driven stud washer	29
D-3044	Assembler entrance, upper, operating lever pusher plate fulcrum stud screw	29	E-3265	Assembler entrance, upper, pusher plate cam weight lever roll stud nut 8-32 x 1/4"	29
D-3044	Assembler entrance, upper, operating lever pusher plate stud screw 8-32 x 11/32"	29	E-3816	Assembler entrance, upper, shifter key lever connection stud nut washer	29
D-3816	Assembler entrance, upper, shifter key lever connection fulcrum stud	29	E-3819	Assembler entrance, upper, shifter bracket brace screw 1/4"-24 x 5/8"	29
D-6120	Assembler entrance, upper, pusher plate and weight lever link screw 1/4"-24 x 1 3/8"	29	F-2399	Assembler entrance, upper, shifter key lever connection stud nut 8-32 x 1/8"	29
D-6141	Assembler entrance, upper, pusher plate cam weight lever	29	F-2438	Assembler entrance, upper, pusher plate and weight lever link screw lock washer	29
D-6142	Assembler entrance, upper, shifter gear, driven	29	F-6828	Assembler entrance, upper, pusher plate slide cap screw 1/4"-24 x 1/2"	29
D-6147	Assembler entrance, upper, pusher plate slide cap, lower	29	G- 67	Assembler entrance, upper, pusher plate cam weight lever spring	29
D-6150	Assembler entrance, upper, pusher plate slide cap, upper	29	G- 240	Assembler entrance, upper, shifter bracket brace dowel 3/16" x 3/4"	29
D-6151	Assembler entrance, upper, operating lever pusher plate slide and eccentric gear stud	29	G- 939	Assembler entrance, upper, pusher plate cam weight lever spring eye	29
D-6174	Assembler entrance, upper, pusher plate	29	G-1398	Assembler entrance, upper, pusher plate cam weight lever roll stud nut washer	29
D-6176	Assembler entrance, upper, connecting rod stud sleeve	29	G-3078	Assembler entrance, upper, pusher plate helper lever pin nut washer	29
D-6177	Assembler entrance, upper, pusher plate link sleeve	29	G-3398	Assembler entrance, upper, pusher plate helper bushing nut 1/4"-24 x 1/8"	29
D-6178	Assembler entrance, upper, pusher plate cam weight lever roll	29	G-3398	Assembler entrance, upper, connecting rod stud lock nut 1/4"-24 x 1/8"	29
D-6179	Assembler entrance, upper, shifter gear driven stud	29	H-4108	Assembler entrance, upper, pusher plate and weight lever link screw nut 1/4"-24 x 3/18"	29
D-6182	Assembler entrance, upper, shifter key lever link	29	I-2540	Assembler entrance, upper, connecting rod stud nut washer	29
D-6183	Assembler entrance, upper, shifter key lever connection	29	I-5508	Assembler entrance, upper, shifter gear, driven stud nut	29
D-6184	Assembler entrance, upper, pusher plate helper lever	29	J- 463	Assembler entrance, upper, connecting rod stud nut 1/4"-24 x 3/16"	29
D-6185	Assembler entrance, upper, operating lever pusher plate stop bushing	29	J-1228	Assembler entrance, upper, pusher plate helper lever bushing screw nut 10-32 x 1/8"	29
D-6186	Assembler entrance, upper, pusher plate helper lever spacer	29	J-1228	Assembler entrance, upper, pusher plate helper lever pin nut 10-32 x 1/8"	29
D-6187	Assembler entrance, upper, pusher plate helper lever pin	29	J-2477	Assembler entrance, upper, operating lever pusher plate stop bushing screw 10-32 x 3/8"	29
D-6188	Assembler entrance, upper, pusher plate helper lever bushing	29			
D-6189	Assembler entrance, upper, pusher plate helper pin	29			
D-6190	Assembler entrance, upper, pusher plate helper spacing washer	29			
D-6191	Assembler entrance, upper, pusher plate cam weight lever roll stud	29			
D-6193	Assembler entrance, upper, pusher plate helper bushing	29			
D-6200	Assembler entrance, upper, operating lever pusher plate connecting rod	29			
D-6201	Assembler entrance, upper, operating lever pusher plate slide	29			
D-6205	Assembler entrance, upper, pusher plate	29			
D-6209	Assembler entrance, upper, operating lever pusher plate fulcrum stud	29			
D-6210	Assembler entrance, upper, pusher plate and weight lever link	29			
D-6212	Assembler entrance, upper, operating lever pusher plate stop	29			
D-6216	Assembler entrance, upper, shifter bracket brace	29			
D-6258	Assembler entrance, upper, pusher plate helper, assembled	29			
			D-6208	Assembler entrance, upper, shifter bracket	29

Parts Not Illustrated

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Model 30

Assembler Entrance, Upper, Shifter 191

A- 730 Assembler entrance, upper, shifter bracket dowel, upper 5/16" x 7/8"	30	D-6415 Assembler entrance, upper, shifter gear, driven stud screw	30
C- 142 Assembler entrance, upper, shifter bracket screw 3/8"-16 x 3/4"	30	E- 403 Assembler entrance, upper, shifter support bracket dowel	30
D- 965 Assembler entrance, upper, shifter lever connection bracket dowel 5/32" x 1/2"	30	E- 523 Assembler entrance, upper, pusher plate helper lever bushing screw nut washer	30
D- 979 Assembler entrance, upper, shifter key lever weight screw 10-32 x 3/8"	30	E- 738 Assembler entrance, upper, shifter support bracket screw 5/16"-18 x 7/8"	30
D-1525 Assembler entrance, upper, pusher plate and weight lever link screw washer	30	E-2592 Assembler entrance, upper, pusher plate helper lever bushing screw 10-32 x 21/32"	30
D-6120 Assembler entrance, upper, pusher plate and weight lever link screw	30	E-3265 Assembler entrance, upper, pusher plate cam weight lever roll stud nut 8-32 x 1/8"	30
D-6141 Assembler entrance, upper, pusher plate cam weight lever	30	F-2438 Assembler entrance, upper, pusher plate and weight lever link screw lock washer	30
D-6142 Assembler entrance, upper, shifter gear, driven	30	F-2478 Assembler entrance, upper, shifter lever shaft screw 6-32 x 1/2"	30
D-6174 Assembler entrance, upper, pusher plate	30	F-6828 Assembler entrance, upper, pusher plate slide cap screw 1/4"-24 x 1/2"	30
D-6177 Assembler entrance, upper, pusher plate link sleeve	30	G- 67 Assembler entrance, upper, pusher plate cam weight lever spring	30
D-6178 Assembler entrance, upper, pusher plate cam weight lever roll	30	G- 304 Assembler entrance, upper, shifter lever connection bracket screw 1/4"-24 x 1/2"	30
D-6184 Assembler entrance, upper, pusher plate helper lever	30	G- 939 Assembler entrance, upper, pusher plate cam weight lever spring eye	30
D-6186 Assembler entrance, upper, pusher plate helper lever spacer	30	G-1134 Assembler entrance, upper, shifter support bracket screw washer	30
D-6187 Assembler entrance, upper, pusher plate helper lever pin	30	G-1398 Assembler entrance, upper, pusher plate cam weight lever roll stud nut washer	30
D-6188 Assembler entrance, upper, pusher plate helper bushing	30	G-3078 Assembler entrance, upper, pusher plate helper lever pin nut washer	30
D-6189 Assembler entrance, upper, pusher plate helper pin	30	G-3398 Assembler entrance, upper, pusher plate helper bushing nut 1/4"-24 x 1/8"	30
D-6190 Assembler entrance, upper, pusher plate helper spacing washer	30	H- 518 Assembler entrance, upper, operating lever bracket screw 5/16"-18 x 3/4"	30
D-6191 Assembler entrance, upper, pusher plate cam weight lever roll stud	30	H-4108 Assembler entrance, upper, pusher plate and weight lever link screw nut 1/4"-24 x 3/16"	30
D-6193 Assembler entrance, upper, pusher plate helper bushing	30	J-1228 Assembler entrance, upper, pusher helper lever bushing screw nut 10-32 x 1/8"	30
D-6205 Assembler entrance, upper, pusher plate helper	30	J-1228 Assembler entrance, upper, pusher plate helper lever pin nut 10-32 x 1/8"	30
D-6210 Assembler entrance, upper, pusher plate and weight lever link	30		
D-6258 Assembler entrance, upper, pusher plate helper, assembled	30		
D-6259 Assembler entrance, upper, pusher plate helper lever, assembled	30		
D-6270 Assembler entrance, upper, pusher plate slide cap, upper	30		
D-6271 Assembler entrance, upper, pusher plate slide cap, lower	30		
D-6273 Assembler entrance, upper, shifter key lever link	30		
D-6274 Assembler entrance, upper, shifter key lever connection	30		
D-6286 Assembler entrance, upper, shifter lever shaft	30		
D-6310 Assembler entrance, upper, shifter bracket oil tubing, short	30		
D-6324 Assembler entrance, upper, shifter lever connecting bracket	30		
D-6328 Assembler entrance, upper, shifter bracket oil tubing, long	30		
D-6348 Assembler entrance, upper, shifter lever	30		
D-6360 Assembler entrance, upper, shifter support bracket	30		
D-6414 Assembler entrance, upper, shifter gear, driven stud	30		

Parts Not Illustrated

D-6357 Assembler entrance, upper, shifter bracket 30

Please Give Model and Serial Number When Ordering



D-6329



D-6361



D-6347



D-6359



E-3613



D-3326



F-2399



E-3816



D-3816



D-6288



G-117



D-6283



D-6201



D-6170



C-297



D-6185



D-6212



J-2477



D-6351



D-6287



B-261



D-6209



D-6358



D-6346



D-3044



C-116



D-6284



D-326



H-516

Assembling Mechanism

Model 30

Assembler Entrance, Upper, Shifter 193

B- 261 Assembler entrance, upper, operating lever pusher plate connecting rod wrist pin dowel	30	D-6284 Assembler entrance, upper, operating lever shaft	30
C- 116 Assembler entrance, upper, operating lever bracket dowel 1/4" x 11/16"	30	D-6287 Assembler entrance, upper, operating lever pusher plate connecting rod wrist pin	30
C- 297 Assembler entrance, upper, operating lever bumper pin nut 5/16"-18 x 1/4"	30	D-6288 Assembler entrance, upper, auxiliary, shifter lever shaft	30
D- 326 Assembler entrance, upper, operating lever shaft screw 8-32 x 3/4"	30	D-6329 Assembler entrance, upper, shifter key lever weight	30
D-3044 Assembler entrance, upper, operating lever pusher plate fulcrum stud screw 8-32 x 11/32"	30	D-6346 Assembler entrance, upper, operating lever bracket	30
D-3044 Assembler entrance, upper, operating lever pusher plate stop screw 8-32 x 11/32"	30	D-6347 Assembler entrance, upper, auxiliary, operating lever bracket	30
D-3326 Assembler entrance, upper, shifter key lever connecting stud	30	D-6351 Assembler entrance, upper, operating lever pusher plate connecting rod	30
D-3816 Assembler entrance, upper, shifter key lever connecting fulcrum stud	30	D-6358 Assembler entrance, upper, operating lever	30
D-6170 Assembler entrance, upper, operating lever bumper pin	30	D-6359 Assembler entrance, upper, auxiliary, operating lever	30
D-6185 Assembler entrance, upper, operating lever pusher plate stop bushing	30	D-6361 Assembler entrance, upper, auxiliary, shifter lever	30
D-6201 Assembler entrance, upper, operating lever pusher plate slide fulcrum stud	30	E-3613 Assembler entrance, upper, shifter key lever connecting operating pin	30
D-6209 Assembler entrance, upper, operating lever pusher plate stop	30	E-3816 Assembler entrance, upper, shifter key lever connection stud nut lock washer	30
D-6212 Assembler entrance, upper, operating lever pusher plate stop	30	F-2399 Assembler entrance, upper, shifter key lever connection stud nut 8-32 x 1/8"	30
D-6283 Assembler entrance, upper, auxiliary, operating lever shaft	30	G- 117 Assembler entrance, upper, auxiliary, shifter lever shaft screw 8-48 x 2/8"	30
		H- 518 Assembler entrance, upper, shifter bracket screw 5/16"-18 x 3/4"	30
		J-2477 Assembler entrance, upper, operating lever pusher plate stop bushing screw 10-32 x 3/8"	30

Please Give Model and Serial Number When Ordering



D-6429



D-6427



D-4939



8-210



D-4886



G-274



D-4856



D-4859



D-4888



D-181



D-5326



D-5325



D-5324



F-5699



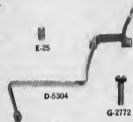
G-2790



E-25



D-5305



D-5304



G-2772



D-4701



D-4883



D-5323



D-4661



D-4652



D-4383



B-217



H-144



D-1401



D-714



D-6428



A-115



D-4942



D-4881



D-4941



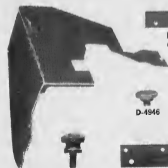
D-4944



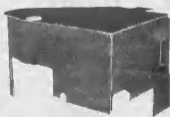
D-4998



D-4925

D-4949
D-5196D-4996
(SHORT)D-4996
(LONG)D-4994
(LONG)

D-4946



D-5001 (LOWER)



D-4991 (UPPER)

D-4992
D-5103

D-4947

A- 115 Pi stacker and assembler entrance, upper, finger shift bracket support dowel 3/8" x 7/8"	29	D-4949 Assembler entrance, upper, finger key shift cover, assembled	30
B- 210 Assembler entrance, upper, finger key lever stop screw 1/4"-20 x 1"	30	D-4991 Assembler entrance, upper, finger key shift cover, upper	29
B- 217 Assembler entrance, upper, finger key shift cover, upper, screw 8-32 x 1/4"	29	D-4992 Assembler entrance, upper, finger key shift cover, rear	29
B- 217 Assembler entrance, upper, finger key shift cover, rear, screw 3/32" x 1/4"	29	D-4994 Assembler entrance, upper, finger key shift cover, upper, fastening piece, long	29
B- 217 Assembler entrance, upper, finger key shift cover screw, side 8-32 x 1/4"	30	D-4995 Assembler entrance, upper, finger key shift cover, lower, fastening piece, long	29
B- 217 Assembler entrance, upper, finger key shift cover, back, screw 8-32 x 1/4"	30	D-4996 Assembler entrance, upper, finger key shift cover, lower, fastening piece, short	29
B8-525 Assembler entrance, upper, finger key shift cover, upper, screw	29	D-4998 Assembler entrance, upper, finger key lever stop bracket	29
D- 161 Assembler entrance, upper, finger key bar shaft pin 1/8" x 5/8"	29	D-5001 Assembler entrance, upper, finger key shift cover, lower	29
D- 714 Assembler entrance, upper, finger key lever stop pin 3/32" x 1/2"	29	D-5103 Assembler entrance, upper, finger key shift cover, rear	29
D-1401 Assembler entrance, upper, finger key shift cover screw, r.h. 8-32 x 9/16"	30	D-5108 Assembler entrance, upper, finger key shift cover, upper, fastening piece, short	29
D-4383 Assembler entrance, upper, finger key shift cover screw 8-32 x 3/18"	29	D-5196 Assembler entrance, upper, finger key shift cover (for machines with 4 main and 2 auxiliary magazines)	30
D-4652 Assembler entrance, upper, finger key lever fulcrum pin 1/4" x 4 1/2"	30	D-5304 Assembler entrance, upper, finger key lever	30
D-4661 Assembler entrance, upper, finger key lever spring	30	D-5305 Assembler entrance, auxiliary, upper, finger key lever	30
D-4701 Pi stacker support	30	D-5323 Assembler entrance, upper, finger key lever bracket	29
D-4856 Assembler entrance, upper, finger key	30	D-5324 Assembler entrance, upper, finger key lever	29
D-4859 Assembler entrance, auxiliary, upper, finger key	30	D-5325 Assembler entrance, upper, finger key lever plunger spring	29
D-4881 Assembler entrance, upper, finger key lever bracket lock screw, assembled	29	D-5326 Assembler entrance, upper, finger key lever plunger	29
D-4883 Assembler entrance, upper, finger key	29	D-6427 Pi stacker and assembler entrance, upper, shift bracket screw, upper, front	29
D-4886 Pi stacker and assembler entrance, upper, finger shift bracket support	29	D-6428 Pi stacker and assembler entrance, upper, shift bracket screw, lower	29
D-4888 Assembler entrance, upper, finger key lever	29	D-6429 Pi stacker and assembler entrance, upper, shift bracket	29
D-4925 Assembler entrance, upper, finger key lever stop bracket	30	E- 25 Assembler entrance, upper, finger key lever fulcrum pin set screw 8-32 x 1/4"	30
D-4939 Assembler entrance, upper, finger key bar shaft	29	F-5599 Assembler entrance, upper, finger key lever stop screw lock nut 1/4"-30 x 3/8"	30
D-4941 Assembler entrance, upper, finger key lever bracket hinge pin 5/16" x 2 3/4"	29	G- 274 Assembler entrance, upper, finger key lever stop bracket screw 8-32 x 3/8"	29-30
D-4942 Pi stacker and assembler entrance, upper, finger shift bracket support screw 1/2"-12 x 7/8"	29	G-2772 Assembler entrance, upper, finger key screw 8-48 x 1/2"	29-30
D-4944 Assembler entrance, upper, finger key shift cover supporting stud	30	G-2772 Assembler entrance, auxiliary, upper, finger key screw 6-48 x 1/2"	30
D-4946 Assembler entrance, upper, finger key shift cover, back, stud	30	G-2790 Assembler entrance, upper, finger key lever spring eye	30
D-4947 Assembler entrance, upper, finger key shift cover, back	30	H- 144 Assembler entrance, upper, finger key lever bracket hinge pin set screw 8-32 x 5/16"	29
		<u>Parts Not Illustrated</u>	
		D-4962 Assembler entrance, upper, finger key lever and bracket, assembled	29

Please Give Model and Serial Number When Ordering



D-4919



D-4670



D-4668



D-4671

D-4673 (A=12.5/32")
D-5328 (A=12.11/32")

D-4665



D-4884

D-4674
(USED WITH D-5328)D-4672
(USED WITH D-4673)

F-58



D-4669



D-4667



G-3085



B-74



F-463



G-240



G-3398



E-3479



D-4666



D-4713



D-30



D-5302



E-2045



G-744



G-1934



H-4046



H-4043



D-4718



H-4045



D-5154



G-152

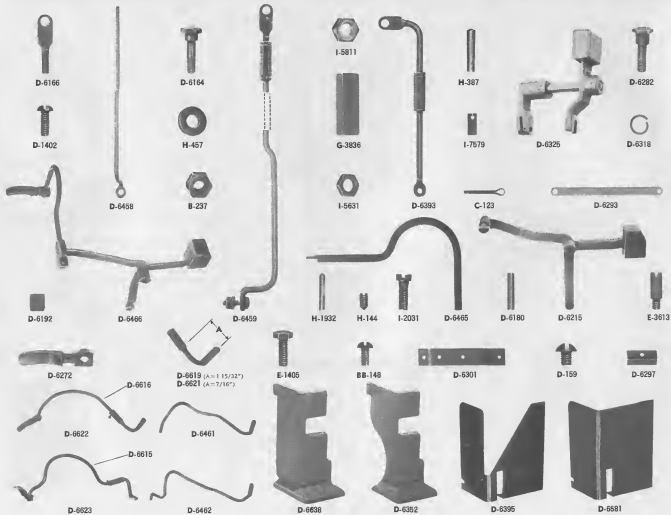


C-203

D-4920
D-4679

B- 74	Assembler entrance, upper, finger key shift bracket screw 3/8"-18 x 5/8"	29	D-4884	Assembler entrance, upper, finger key shift connecting link, lower	29
C- 203	Assembler entrance, upper, shift driving gear set screw	29-30	D-4919	Assembler entrance, upper, finger key shift connecting link, assembled	29
D- 30	Assembler entrance, upper, finger key shift operating cam roll lever stud set screw 8-32 x .333"	29	D-4920	Assembler entrance, upper, shift driving gear	29
D-4665	Assembler entrance, upper, finger key shift connecting link, lower	29-30	D-5154	Keyboard rod lever slide operating cam roll	30
D-4665	Assembler entrance, auxiliary, upper, finger key shift connecting link, lower	30	D-5302	Assembler entrance, upper, finger key shift connecting link stud, lower	29-30
D-4666	Assembler entrance, upper, finger key shift connecting link housing bushing	29-30	D-5328	Assembler entrance, auxiliary, upper, finger key shift connecting link, assembled	30
D-4666	Assembler entrance, auxiliary, upper, finger key shift connecting link housing bushing	30	E-2045	Assembler entrance, upper, finger key shift connecting link stud, lower, cotter pin	29-30
D-4667	Assembler entrance, upper, finger key shift connecting link spring washer	29-30	E-3479	Assembler entrance, upper, finger key shift connecting link, upper, nut lock washer	29-30
D-4667	Assembler entrance, auxiliary, upper, finger key shift connecting link spring washer	30	E-3479	Assembler entrance, upper, finger key shift operating cam roll lever link stud, upper, lock washer	29-30
D-4668	Assembler entrance, upper, finger key shift connecting link spring	29-30	E-3479	Assembler entrance, auxiliary, upper, finger key shift connecting link, upper, nut lock washer	30
D-4668	Assembler entrance, auxiliary, upper, finger key shift connecting link spring	30	F- 58	Assembler entrance, upper, finger key shift bracket screw 1/2"-12 x 1"	30
D-4669	Assembler entrance, upper, finger key shift connecting link spring collar	29-30	F- 463	Assembler entrance, upper, finger key shift bracket dowel 3/16" x 5/8"	29
D-4669	Assembler entrance, auxiliary, upper, finger key shift connecting link spring collar	30	F-2343	Assembler entrance, upper, shift intermediate driving gear guard screw 10-32 x 1/2"	30
D-4670	Assembler entrance, upper, finger key shift connecting link spring collar pin 3/32" x 11/32"	29-30	G- 152	Assembler entrance, upper, shift intermediate driving gear bracket screw 3/8"-16 x 1"	30
D-4670	Assembler entrance, auxiliary, upper, finger key shift connecting link spring collar pin 3/32" x 11/32"	30	G- 240	Assembler entrance, upper, shift intermediate driving gear bracket dowel 3/16" x 3/4"	30
D-4671	Assembler entrance, upper, finger key shift connecting link spring housing	29-30	G- 240	Assembler entrance, upper, finger key shift bracket dowel 3/16" x 3/4"	30
D-4671	Assembler entrance, auxiliary, upper, finger key shift connecting link spring housing	30	G- 744	Assembler entrance, upper, finger key shift connecting link, upper, nut 5/16"-18 x 1/2"	29-30
D-4672	Assembler entrance, upper, finger key shift connecting link, upper	29-30	G- 744	Assembler entrance, auxiliary, upper, finger key shift connecting link, upper, nut 5/16"-18 x 1/2"	30
D-4673	Assembler entrance, upper, finger key shift connecting link, assembled	30	G-1934	Keyboard rod lever slide operating lever pin 5/32" x .898"	29
D-4674	Assembler entrance, auxiliary, upper, finger key shift connecting link, upper	30	G-3085	Assembler entrance, upper, finger key shift connecting link housing bushing set screw 4-48 x 5/32"	29-30
D-4679	Assembler entrance, upper, shift driving gear	30	G-3398	Assembler entrance, upper, finger key shift connecting link stud, upper, nut 1/4"-24 x 3/8"	29-30
D-4713	Assembler entrance, upper, finger key shift driving belt	29-30	H-4043	Keyboard rod lever slide operating lever	29
D-4718	Assembler entrance, upper, shift intermediate driving gear guard	30	H-4045	Keyboard rod lever slide operating lever shaft	29
			H-4046	Keyboard rod lever slide and assembler entrance, upper, operating cam roll lever, assembled	29

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 29-30

Assembler Entrance, Upper, Shifter 199

B- 237 Assembler entrance, upper, shift connecting link lever, r.h., stud nut 1/4"-24 x 1/4"	30	D-6466 Assembler entrance, upper, shifter key lever and handle, assembled	29
B- 237 Assembler entrance, upper, shift connecting link stud nut 1/4"-24 x 1/4"	29	D-6581 Assembler entrance, upper, shaft connecting link cover, upper, assembled	30
B8-148 Assembler entrance, upper, shift connecting link cover, lower, screw 8-32 x 5/10"	30	D-6615 Assembler entrance, upper, main, shifter key lever extension	30
C- 123 Assembler entrance, upper, shift connecting link lever, l.h., cotter pin	30	D-6616 Assembler entrance, upper, auxiliary, shifter key lever extension	30
D- 159 Assembler entrance, upper, shift connecting link cover, upper, screw 8-32 x 3/18"	30	D-6619 Assembler entrance, upper, auxiliary, shifter key lever connector, assembled	30
D-1402 Assembler entrance, upper, shifter key lever extension screw 8-32 x 7/18"	29	D-6621 Assembler entrance, upper, main, shifter key lever connector, assembled	30
D-1402 Assembler entrance, upper, shifter key lever handle screw 8-32 x 7/18"	29-30	D-6622 Assembler entrance, upper, auxiliary, shifter lever extension and handle, assembled	30
D-1402 Assembler entrance, upper, shift connecting link cover strap screw 8-32 x 7/18"	30	D-6623 Assembler entrance, upper, main, shifter lever extension and handle, assembled	30
D-6164 Assembler entrance, upper, shift connecting link stud	29	D-6638 Assembler entrance, upper, shift connecting link cover, lower	30
D-6166 Assembler entrance, upper, shift connecting link, upper	29	E-1405 Assembler entrance, upper, shifter key lever extension connector screw 10-28 x 1/2"	30
D-6180 Assembler entrance, upper, shifter key lever stud	29	E-3613 Assembler entrance, upper, shifter key lever connection operating pin	30
D-6192 Assembler entrance, upper, shifter key lever handle bumper	29-30	G-3836 Assembler entrance, upper, shift connecting link turnbuckle	29-30
D-6215 Assembler entrance, upper, shifter key lever	29	H- 144 Assembler entrance, upper, shifter key lever stud set screw 8-32 x 5/16"	29
D-6272 Assembler entrance, upper, shifter key lever handle	29-30	H- 387 Assembler entrance, upper, connecting link lever pin	29
D-6282 Assembler entrance, upper, shift connecting link lever, r.h., stud	30	H- 457 Assembler entrance, upper, shift connecting link lever, r.h., stud washer	30
D-6293 Assembler entrance, upper, shaft connecting link	30	H- 457 Assembler entrance, upper, shift connecting link stud washer	29
D-6297 Assembler entrance, upper, shaft connecting link cover, upper, bracket	30	H-1932 Assembler entrance, upper, shifter lever extension pin 1/8" x 5/8"	30
D-6301 Assembler entrance, upper, shift connecting link cover strap	30	I-2031 Assembler entrance, upper, shifter lever extension screw 10-32 x 1/2"	30
D-6318 Assembler entrance, upper, shaft connecting link lever, r.h., stud spring	30	I-5631 Assembler entrance, upper, shift connecting link turnbuckle, r.h., lock nut	29
D-6325 Assembler entrance, upper, shift connecting link lever and shaft, assembled	30	I-5631 Assembler entrance, upper, shift connecting link, lower, nut 5/16"-24 x 1/8"	30
D-6352 Assembler entrance, upper, shift connecting link cover, lower	30	I-5811 Assembler entrance, upper, shift connecting link turnbuckle, l.h., lock nut	29
D-6393 Assembler entrance, upper, shift connecting link, assembled	30	I-5811 Assembler entrance, upper, shift connecting link, upper, nut 5/16"-24 x 1/8"	30
D-6395 Assembler entrance, upper, shift connecting link cover, upper, assembled	30	I-7579 Assembler entrance, upper, shift connecting link lever, l.h., stud	30
D-6458 Assembler entrance, upper, shift connecting link, upper	29		
D-6459 Assembler entrance, upper, shift connecting link, assembled	29		
D-6461 Assembler entrance, upper, shifter lever extension	30		
D-6462 Assembler entrance, upper, auxiliary, shifter lever extension	30		
D-6465 Assembler entrance, upper, shifter key lever extension	29		

Please Give Model and Serial Number When Ordering

D-6467
(LOWER)

F-548

D-6471
(UPPER)

B-217

D-6641
(LOWER)

D-6430

A-945
(LOWER)

BB-148



D-6355



D-6364



I-186



D-6457



D-6456



D-6211



A-112



E-738



I-1120



J-463

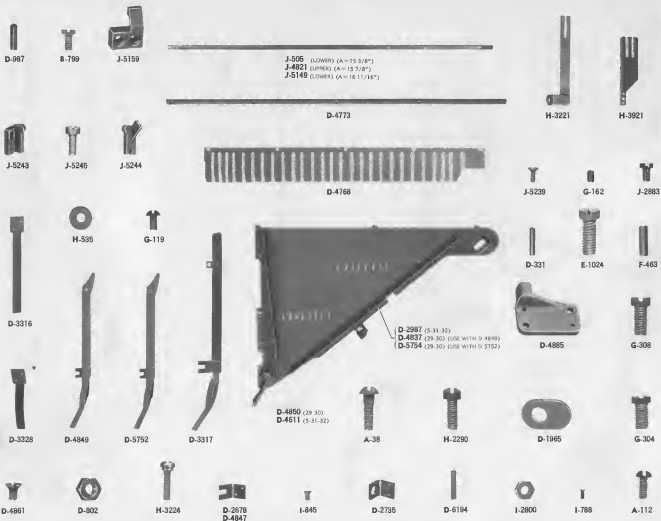


G-304

Assembling Mechanism
Models 29-30
Assembler Entrance, Upper, Shifter 201

A- 112 Assembler entrance, upper, shifter bracket cap apron screw 8-32 x 3/8"	29	D-6456 Assembler entrance, upper, shifter bracket cap	29
A- 945 Pi stacker and assembler entrance, upper, shift bracket dowel, lower 3/8" x 2"	29	D-6457 Assembler entrance, upper, shifter bracket tie rod	29
B- 217 Assembler entrance, upper, shift cover, upper, screw 8-32 x 1/4"	29	D-6467 Assembler entrance, upper, shift cover, lower	29
B- 217 Assembler entrance, upper, shift cover, lower, screw 8-32 x 1/4"	29	D-6471 Assembler entrance, upper, shift cover, upper	29
BB-148 Assembler entrance, upper, shifter cover top plate screw 8-32 x 5/16"	30	D-6641 Assembler entrance, upper, shift cover, lower	29
BB-148 Assembler entrance, upper, shifter cover screw 8-32 x 5/16"	30	E- 738 Assembler entrance, upper, shifter bracket brace screw 5/16"-18 x 7/8"	29
D-6211 Assembler entrance, upper, shifter bracket cap apron	29	F- 548 Assembler entrance, upper, bracket brace dowel	29
D-6355 Assembler entrance, upper, shifter cover	30	G- 304 Assembler entrance, upper, shifter bracket cap screw 1/4"-24 x 1/2"	29
D-6364 Assembler entrance, upper, shifter cover top plate	30	I- 186 Assembler entrance, upper, shifter bracket tie rod lock nut 3/8"-18 x 1/4"	29
D-6430 Pi stacker and assembler entrance, upper, shift bracket, assembled	29	I-1120 Assembler entrance, upper, shifter bracket dowel, lower 1/4" x 5/8"	30
		J- 463 Assembler entrance, upper, shifter bracket cover nut 1/4"-24 x 3/8"	29

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 5-29-30-31-32

Assembler Entrance 203

A- 38 Assembler entrance plate screw 14-24 x 3/4"	29-30-31-32		
A- 112 Assembler entrance cover latch screw 8-32 x 3/8"	29-30-31-32		
B- 799 Escapement verge plunger push rod stop bar guide pivot, l.h., screw 4-48 x 3/16"	29-30		
D- 331 Assembler entrance plate dowel 1/8" x 9/16"	5-29-30-31-32		
D- 802 Assembler entrance plate guide and spaceband lever guide screw nut 8-32 x 1/8"	31-32		
D- 802 Assembler entrance plate guide screw nut 8-32 x 1/8"	5	31-32	
D- 987 Escapement verge plunger push rod stop bar guide pivot, dowel .079" x 3/8"	29-30		
D-1965 Assembler entrance plate filling piece	30	32	
D-2678 Assembler entrance plate guide adjusting bracket	5	31-32	
D-2735 Assembler entrance plate guide bracket	5	31-32	
D-2987 Assembler entrance plate, assembled	5	31-32	
D-3316 Assembler entrance plate guide extension	5-29-30-31-32		
D-3317 Assembler entrance plate guide, assembled	5	31-32	
D-3328 Assembler entrance plate guide extension, short	5-29-30-31-32		
D-4611 Assembler entrance, assembled	5	31-32	
D-4768 Assembler entrance plate buffer (90) and (72-90)	29-30		
D-4773 Assembler entrance plate buffer clamp bar	29-30		
D-4837 Assembler entrance plate, assembled	29-30		
D-4847 Assembler entrance plate guide adjusting bracket	29-30		
D-4849 Assembler entrance plate guide, assembled	29-30		
D-4850 Assembler entrance, assembled	29-30		
D-4861 Assembler entrance plate guide screw 6-48 x 1/4"	29-30		
D-4885 Assembler entrance plate support	29-30		
D-5752 Assembler entrance plate guide, assembled	29-30		
D-5754 Assembler entrance plate, assembled	29-30		
D-6194 Assembler entrance plate stop screw 8-48 x 5/8"	5-29-30-31-32		
E-1024 Assembler entrance plate support bracket, r.h., screw, long 1/4"-24 x 3/4"	5	31-32	
F- 463 Assembler entrance plate support dowel 3/16" x 5/8"	29		
G- 119 Assembler entrance plate guide fastening screw 6-48 x 1/4"	5-29-30-31-32		
G- 162 Spaceband lever guide dowel	29-30		
G- 304 Assembler entrance plate support bracket, r.h., screw, short 1/4"-24 x 1/2"	5	31-32	
G- 308 Assembler entrance plate support bracket, l.h., screw 1/4"-24 x 7/16"	5	31-32	
H- 535 Assembler entrance plate guide fastening screw washer	5-29-30-31-32		
H-2290 Assembler entrance plate screw 1/4"-24 x 5/8"	5-29-30-31-32		
H-2290 Assembler entrance plate support screw	29		
H-3221 Spaceband lever guide	5	31-32	
H-3224 Assembler entrance plate guide screw	5	31-32	
H-3224 Assembler entrance plate guide and spaceband lever guide screw	5-29-30-31-32		
H-3921 Spaceband lever guide	29-30		
I- 788 Assembler entrance cover latch rivet	29-30		
I- 845 Assembler entrance plate guide bracket rivet	5	31-32	
I- 845 Assembler entrance plate guide adjusting bracket rivet	5-29-30-31-32		
I-2800 Assembler entrance plate stop screw nut 6-48 x 1/4"	5-29-30-31-32		
J- 505 Assembling guide locking rod, lower	5	31-32	
J-2883 Spaceband lever guide screw 5-40 x 3/16"	29-30		
J-4821 Assembling guide locking rod, upper	5	31-32	
J-5149 Assembling guide, lower, locking rod	29-30		
J-5159 Assembling guide, lower, lock rod lug	29-30		
J-5239 Assembler entrance plate buffer clamp bar screw 3-48 x 1/4"	29-30		
J-5243 Escapement verge plunger push rod stop bar guide pivot, r.h.	29-30		
J-5244 Escapement verge plunger push rod stop bar guide pivot, l.h.	29-30		
J-5245 Escapement verge plunger push rod stop bar guide, front, r.h., screw 6-40 x 10/64"	29-30		

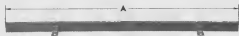
Please Give Model and Serial Number When Ordering



D-4823



I-2682

D-929 (A=14 15/64")
D-4825 (A=12 3/4")

J-115



D-159



D-4404



H-463



D-1483



D-1747



D-4403



D-2736



D-4745



D-2245



D-2556



D-107



H-182



D-5411



D-1663



D-4409



D-5410



D-5454



D-5455



E-165



D-3319



D-5749



D-5456



D-5452



D-5453



D-4389



D-3318

Assembling Mechanism

Models 5-29-30-31-32

Assembler Entrance 205

D- 107	Matrix delivery belt idle pulley stud washer	29-30-31-32	D-4745	Assembler entrance cover latch bracket block	29-30
D- 159	Matrix delivery belt supporting plate screw 8-32 x 3/16"	5-29-30-31-32	D-4823	Matrix delivery belt supporting plate bracket, lower	29-30
D- 829	Matrix delivery belt supporting plate, assembled	5 31-32	D-4825	Matrix delivery belt supporting plate, assembled	29-30
D-1483	Assembler entrance cover latch	5 31-32	D-5410	Matrix delivery belt idle pulley (oilite bearing)	5-29-30-31-32
D-1483	Assembler entrance cover latch, lower	29-30	D-5411	Matrix delivery belt idle pulley stud (use with D-5410)	5-29-30-31-32
D-1663	Assembler chute finger stud	5-29-30-31-32	D-5452	Matrix delivery belt tension pulley	5-29-30-31-32
D-1747	Assembler entrance cover latch spring	5 31-32	D-5453	Matrix delivery belt tension pulley arm	5-29-30-31-32
D-1747	Assembler entrance cover latch spring, lower	29-30	D-5454	Matrix delivery belt tension pulley arm support	5-29-30-31-32
D-2245	Matrix delivery belt idle pulley stud wick	29-30-31-32	D-5455	Matrix delivery belt tension pulley arm tension spring	5-29-30-31-32
D-2556	Matrix delivery belt idle pulley stud collar	5-29-30-31-32	D-5456	Matrix delivery belt tension pulley stud	5-29-30-31-32
D-2736	Matrix delivery belt supporting plate bracket rivet	5-29-30-31-32	D-5749	Matrix delivery belt tension pulley arm, assembled	5-29-30-31-32
D-3318	Assembler chute finger	5-29-30-31-32	E- 165	Matrix delivery belt idle pulley stud nut 3/8"-16 x 5/8"	5-29-30-31-32
D-3319	Assembler chute finger spring	5-29-30-31-32	H- 182	Matrix delivery belt tension pulley stud pin	5-29-30-31-32
D-4389	Assembler chute finger screw	5-29-30-31-32	H- 463	Assembler entrance cover latch pin 3/32" x 3/4"	5 31-32
D-4403	Assembler entrance cover latch bracket	5 31-32	H- 463	Assembler entrance cover latch pin, lower 3/32" x 3/4"	29-30
D-4403	Assembler entrance cover latch bracket, lower	29-30	I-2682	Assembler entrance cover latch bracket block rivet	29-30
D-4404	Assembler entrance cover latch, assembled	5 31-32	J- 115	Matrix delivery belt supporting plate bracket, upper	29-30
D-4404	Assembler entrance cover latch, lower, assembled	29-30	J- 115	Matrix delivery belt supporting plate bracket	5 31-32
D-4409	Matrix delivery belt, idle pulley stud, assembled (with D-2245 oil wick)	29-30-31-32			

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 5-29-30-31-32 Table of Assembling Guides, Lower 207

Guide No.	Models 5-31	Model 32	Models 29-30	Guide No.	Models 5-31	Model 32	Models 29-30
1	J-2508	J-2508	**	15	J-2521	J-3342	J-5209
2	J-5513	J-5513	J-5515	16	J-2522	J-3343	J-5210
3	J-3034	J-3331	J-5197	17	J-2523	J-3344	J-5211
4	J-5513	J-5513	J-5516	18	J-2524	J-3345	J-5212
5	J-3035	J-3332	J-5199	19	J-2525	J-3346	J-5213
6	J-2511	J-3333	J-5200	20	J-2526	J-3347	J-5214
7	J-2512	J-3334	J-5201	21	J-2527	J-3348	J-5215
8	J-2513	J-3335	J-5202	22	J-2528	J-3349	J-5216
9	J-2514	J-3336	J-5203	23	J-2529	J-3350	J-5217
10	J-2515	J-3337	J-5204	24	J-2530	J-3351	J-5218
11	J-2516	J-3338	J-5205	25	J-2531	J-3352	J-5219
12	J-2518	J-3339	J-5206	26	J-2532	J-3353	J-5253
13	J-2519	J-3340	J-5207	27	J-2533	J-3354	J-5254
14	J-2520	J-3341	J-5208	28	J-2533	J-3355	J-5255

**D-4849 or D-5752 is to be counted as Guide No. 1 on Models 29 and 30.



D-4917



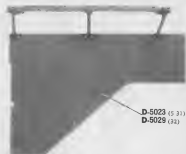
D-4726



B-209



D-4727

D-5023 (S 31)
D-5029 (32)D-5024 (S 31)
D-5030 (32)

D-3548



B-277



D-327



D-331



D-3162



G-702



D-4571



D-5231



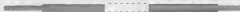
D-5232



E-525



D-5157



D-4774



D-5753 (L.H.)



I-2882



D-4827 (R.H.)

D-4844 (30)
D-4824 (29)D-4845 (30)
D-4963 (29)

D-4983



D-6433



D-4826 (R.H.)



I-2031



I-2031

D-4844 (30)
D-4824 (29)D-4845 (30)
D-4963 (29)

D-5507



G-1194



D-5726 (L.H.)



E-119



D-339



D-4724



D-3554



D-3557



D-1536



D-177



D-4489

D-4488



D-4817



D-4784 (L.H.)



D-4743



D-4821



D-4819



D-4783 (R.H.)



D-4778



G-2556



D-4788



D-4818



D-4791 (L.H.)



D-4787



D-4790 (R.H.)



G-2790

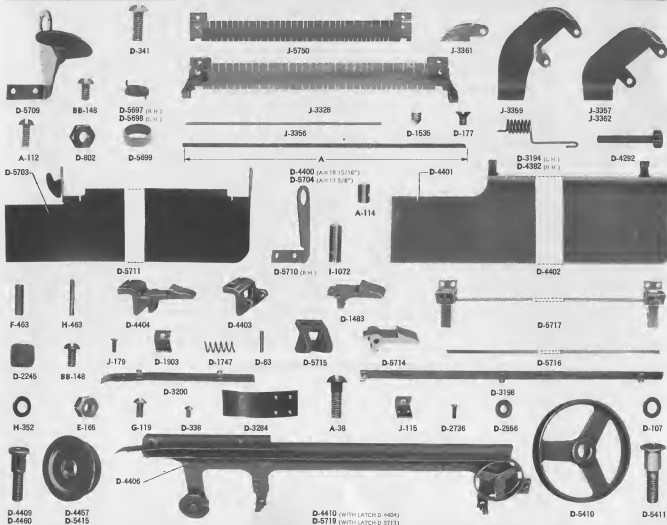
Assembling Mechanism

Models 5-29-30-31-32

Assembler Entrance Covers 209

B- 209 Assembler entrance cover latch, upper, set screw 1/4"-24 x 5/16"	29-30		
8- 277 Assembler entrance cover latch, upper, pin 3/32" x 1/2"	29-30		
D- 177 Assembler entrance flexible buffer screw 4-48 x 3/18"	5	31-32	
D- 327 Assembler entrance cover hinge pin, long 1/8" x 5/8"	5	31-32	
D- 331 Assembler entrance cover hinge pin, short 1/8" x 9/16"	5	31-32	
D- 839 Assembler entrance cover hinge bracket, r.h., dowel .125" x 15/32"	29-30		
D-1535 Assembler entrance flexible buffer holder hinge pin set screw 8-32 x 3/16"	5	31-32	
D-3162 Assembler entrance cover hinge	5	31-32	
D-3548 Assembler entrance flexible buffer holder	5	31-32	
D-3554 Assembler entrance flexible buffer bracket, assembled	5	31-32	
D-3557 Assembler entrance flexible buffer holder hinge pin	5	31-32	
D-4488 Assembler entrance flexible buffer	5	31-32	
D-4489 Assembler entrance flexible buffer, assembled	5	31-32	
D-4571 Assembler entrance cover support	5	31-32	
D-4724 Assembler entrance cover hinge		29-30	
D-4726 Assembler entrance cover latch, upper, bracket		29-30	
D-4727 Assembler entrance cover latch, upper		29-30	
D-4743 Assembler entrance buffer supporting plate screw 4-48 x 1/8"		29-30	
D-4774 Assembler entrance cover hinge shaft		29-30	
D-4778 Assembler entrance buffer spring, r.h.		29-30	
D-4763 Assembler entrance buffer hinge, r.h.		29-30	
D-4784 Assembler entrance buffer hinge, l.h.		29-30	
D-4787 Assembler entrance buffer roll		29-30	
D-4788 Assembler entrance buffer spring stud		29-30	
D-4790 Assembler entrance buffer roll stud, r.h.		29-30	
D-4791 Assembler entrance buffer roll stud, l.h.		29-30	
D-4817 Assembler entrance buffer spring, l.h.		29-30	
D-4818 Assembler entrance buffer screw 5-40 x 1/4"		29-30	
D-4819 Assembler entrance buffer		29-30	
D-4821 Assembler entrance buffer supporting plate		29-30	
D-4826 Assembler entrance cover hinge bracket, r.h.		29-30	
D-4827 Assembler entrance cover hinge bracket, l.h.		29-30	
D-4830 Assembler entrance cover hinge bracket, l.h., screw 10-32 x 9/16"		29-30	
D-4844 Assembler entrance cover, assembled		30	
D-4845 Assembler entrance cover and hinge, assembled		30	
D-4917 Assembler entrance cover latch, upper, assembled		29-30	
D-4924 Assembler entrance cover, assembled		29	
D-4963 Assembler entrance cover and hinge, assembled		29	
D-4983 Assembler entrance, upper, buffer stop link		29-30	
D-5023 Assembler entrance cover hinge and strip, assembled	5	31	
D-5024 Assembler entrance cover, assembled	5	31	
D-5029 Assembler entrance cover hinge and strip, assembled		32	
D-5030 Assembler entrance cover, assembled		32	
D-5157 Assembler entrance, upper, buffer, spring stud, l.h.		29-30	
D-5231 Assembler entrance, upper, buffer stop link screw		29-30	
D-5232 Assembler entrance, upper, buffer stop link spacing washer		29-30	
D-5507 Matrix guard adjusting screw 5-40 x 5/16"		31-32	
D-5726 Assembler entrance cover hinge, l.h.		29-30	
D-5753 Assembler entrance cover hinge bracket, l.h.		29-30	
D-6433 Assembler entrance cover hinge bracket, l.h., screw 10-32 x 9/16"		29-30	
E- 119 Assembler entrance cover hinge screw 8-48 x 1/4"		29-30	
E- 525 Assembler entrance cover support washer	5	31-32	
G- 702 Assembler entrance cover hinge shaft pin 3/32" x 9/16"		29-30	
G-1194 Stationary front guide holder screw, large	5	31-32	
G-2556 Assembler entrance buffer spring		29-30	
G-2790 Assembler entrance buffer spring, l.h., eye		29-30	
I-2031 Assembler entrance cover hinge bracket, r.h., screw 10-32 x 1/2"		29-30	
I-2682 Assembler entrance cover hinge bracket, l.h., rivet		29-30	
J-1435 Assembler entrance cover hinge, l.h., rivet		29-30	

Please Give Model and Serial Number When Ordering



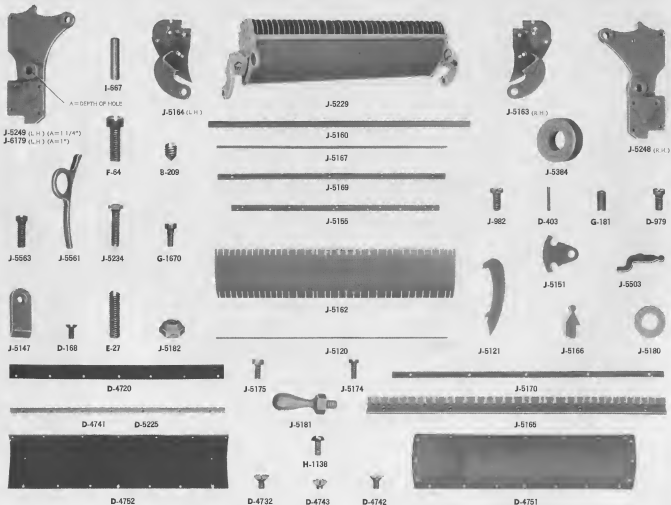
Assembling Mechanism

Model 32

Assembler Entrance, Auxiliary 211

A- 38 Assembler entrance plate, auxiliary, screw 14-24 x 3/4"	32	D-4460 Matrix delivery belt idle pulley, auxiliary, small stud, assembled (with D-2245 oil wick)	32
A- 112 Assembler entrance cover, auxiliary, hinge screw 8-32 x 3/8"	32	D-5410 Matrix delivery belt idle pulley, auxiliary, large (with oilite bearing)	32
A- 114 Assembler entrance cover, auxiliary, stop pin 1/4" x 3/16"	32	D-5411 Matrix delivery belt idle pulley, auxiliary, dia. (use with D-5410, 3 1/2" dia. or D-5415, 2 1/8" dia.)	32
BB-148 Assembler entrance cover, auxiliary, latch screw 8-32 x 5/16"	32	D-5415 Matrix delivery belt idle pulley, auxiliary, small (with oilite bearing)	32
BB-148 Matrix delivery belt supporting plate, auxiliary, screw 8-32 x 5/16"	32	D-5697 Assembler entrance cover, auxiliary, hinge spring, r.h.	32
D- 63 Assembler entrance cover, auxiliary, latch pin	32	D-5698 Assembler entrance cover, auxiliary, hinge spring, l.h.	32
D- 107 Matrix delivery belt idle pulley, auxiliary, large stud washer	32	D-5699 Assembler entrance cover, auxiliary, hinge spring sleeve	32
D- 177 Assembler entrance cover, auxiliary, strip screw 4-48 x 3/16"	32	D-5703 Assembler entrance cover, auxiliary	32
D- 338 Matrix guide, auxiliary, extension rivet	32	D-5704 Assembler entrance cover, auxiliary, strip	32
D- 341 Stationary front guide holder, auxiliary, screw 14-24 x 5/8"	32	D-5709 Assembler entrance cover, auxiliary, hinge, l.h., assembled	32
D- 802 Assembler entrance cover, auxiliary, hinge screw nut 8-32 x 1/8"	32	D-5710 Assembler entrance cover, auxiliary, hinge, r.h.	32
D-1483 Assembler entrance cover, auxiliary, latch	32	D-5711 Assembler entrance cover, auxiliary, assembled	32
D-1535 Assembler entrance cover, auxiliary, hinge rod set screw 8-32 x 3/16"	32	D-5714 Assembler entrance cover, auxiliary, latch	32
D-1747 Assembler entrance cover, auxiliary, latch spring	32	D-5715 Assembler entrance cover, auxiliary, latch bracket	32
D-1903 Matrix guide bracket	32	D-5716 Assembler entrance cover, auxiliary, latch shaft	32
D-2245 Matrix delivery belt idle pulley, auxiliary, large stud wick	32	D-5717 Assembler entrance cover, auxiliary, latch, assembled	32
D-2245 Matrix delivery belt idle pulley, auxiliary, small stud wick	32	D-5719 Assembler entrance plate, auxiliary, assembled	32
D-2556 Matrix delivery belt idle pulley, auxiliary, large stud collar	32	E- 165 Matrix delivery belt idle pulley, auxiliary, stud nut 3/8"-16 x 5/8"	32
D-2736 Matrix delivery belt supporting plate, auxiliary, bracket rivet	32	F- 463 Assembler entrance plate, auxiliary, dowel 3/16" x 5/8"	32
D-3194 Assembler entrance cover, auxiliary, hinge spring, l.h.	32	G- 119 Matrix guide screw 6-48 x 1/4"	32
D-3198 Matrix delivery belt supporting plate, auxiliary, assembled	32	H- 352 Matrix delivery belt idle pulley, auxiliary, small stud washer	32
D-3200 Matrix guide, auxiliary, assembled	32	H- 463 Assembler entrance cover, auxiliary, latch pin 3/32" x 3/4"	32
D-3284 Matrix guide, auxiliary, extension	32	I-1072 Assembler entrance cover, auxiliary, stop pin 1/4" x 3/4"	32
D-4292 Assembler entrance cover, auxiliary, hinge spring stud	32	J- 115 Matrix delivery belt supporting plate, auxiliary, bracket	32
D-4382 Assembler entrance cover, auxiliary, hinge spring, r.h.	32	J- 179 Matrix guide bracket rivet	32
D-4400 Assembler entrance cover, auxiliary, strip	32	J-3328 Stationary front guide holder, auxiliary	32
D-4401 Assembler entrance cover, auxiliary	32	J-3356 Assembling guide, auxiliary, locking rod	32
D-4402 Assembler entrance cover, auxiliary, assembled	32	J-3357 Assembling guide, auxiliary, Nos. 1-3-5-7-9-11-17	32
D-4403 Assembler entrance cover, auxiliary, latch bracket	32	J-3359 Assembling guide, auxiliary, Nos. 12-13-15-16-19-20-23-24-26-27-28-30-32-34, assembled	32
D-4404 Assembler entrance cover, auxiliary, latch, assembled	32	J-3361 Assembling guide, auxiliary, Nos. 2-4-6-8-10-18	32
D-4406 Assembler entrance plate, auxiliary	32	J-3362 Assembling guide, auxiliary, Nos. 14-22-25-29-31-33-35	32
D-4409 Matrix delivery belt idle pulley, auxiliary, large stud, assembled (with D-2245 oil wick)	32	J-5750 Stationary front guide holder, auxiliary	32
D-4410 Assembler entrance plate, auxiliary, assembled	32		
D-4457 Matrix delivery belt idle pulley, auxiliary, small (use with D-4460)	32		

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Model 30

Pivoting Front Guide Holder, Auxiliary 213

B-209	Pivoting front guide holder, auxiliary, shaft set screw 1/4"-24 x 5/16"	30	I-667	Pivoting front guide holder, auxiliary, fulcrum bracket, r.h., dowel 3/16" x 7/8"	30
D-168	Pivoting front guide holder, auxiliary, side plate shoe screw 4-48 x 1/4"	30	J-982	Escapement verge plunger, auxiliary, tappet, lower, stop bar screw 5-40 x 3/8"	30
D-403	Escapement verge plunger, auxiliary, tappet, lower, stop bar dowel 1/16" x 27/64"	30	J-5120	Assembling guide, auxiliary, upper, locking rod	30
D-979	Pivoting front guide holder, auxiliary, side plate, r.h., screw 10-32 x 3/8"	30	J-5121	Assembling guide, auxiliary, upper	30
D-979	Pivoting front guide holder, auxiliary, side plate, l.h., screw 10-32 x 3/8"	30	J-5147	Pivoting front guide holder, auxiliary, side plate shoe	30
D-4720	Assembler entrance, auxiliary, flexible buffer, upper, small	30	J-5151	Escapement verge plunger, auxiliary, tappet rocker	30
D-4732	Assembler entrance, auxiliary, flexible buffer, upper, small, screw 4-48 x 7/32"	30	J-5155	Escapement verge plunger, auxiliary, tappet, lower, guide	30
D-4741	Assembler entrance, auxiliary, flexible buffer, upper, cover strip (used with J-5181 handle)	30	J-5160	Pivoting front guide holder, auxiliary, shaft	30
D-4742	Assembler entrance, auxiliary, flexible buffer, upper, cover strip screw 4-48 x 7/32"	30	J-5162	Pivoting front guide holder, auxiliary	30
D-4743	Assembler entrance, auxiliary, flexible buffer, upper, large screw 4-48 x 1/8"	30	J-5163	Pivoting front guide holder, auxiliary, side plate, r.h.	30
D-4751	Assembler entrance, auxiliary, flexible buffer, upper, cover	30	J-5164	Pivoting front guide holder, auxiliary, side plate, l.h.	30
D-4752	Assembler entrance, auxiliary, flexible buffer, upper, large	30	J-5165	Escapement verge plunger, auxiliary, tappet, upper, guide	30
D-5225	Assembler entrance, auxiliary, flexible buffer, upper, cover strip	30	J-5166	Escapement verge plunger, auxiliary, tappet, lower	30
E-27	Pivoting front guide holder, auxiliary, stop screw 1/4"-24 x 1"	30	J-5167	Escapement verge plunger, auxiliary, tappet, rocker rod	30
F-64	Pivoting front guide holder, auxiliary, fulcrum bracket, r.h., screw 1/4"-24 x 23/32"	30	J-5169	Escapement verge plunger, auxiliary, tappet, lower, stop bar	30
F-64	Pivoting front guide holder, auxiliary, fulcrum bracket, l.h., screw 1/4"-24 x 23/32"	30	J-5170	Escapement verge plunger, auxiliary, tappet, upper, guide strip	30
G-181	Pivoting front guide holder, auxiliary, side plate, r.h., dowel 5/32" x 21/64"	30	J-5174	Escapement verge plunger, auxiliary, tappet, upper, guide strip screw 4-48 x 9/32"	30
G-181	Pivoting front guide holder, auxiliary, side plate, l.h., dowel 5/32" x 21/64"	30	J-5175	Escapement verge plunger, auxiliary, tappet, upper, guide screw 5-40 x 1/4"	30
G-1670	Escapement verge plunger, auxiliary, tappet, lower	30	J-5180	Pivoting front guide holder, auxiliary, side plate spring washer	30
H-1138	Assembler entrance, auxiliary, flexible buffer, upper, cover screw 5-40 x 1/4"	30	J-5181	Pivoting front guide holder, auxiliary, handle	30
I-667	Pivoting front guide holder, auxiliary, fulcrum bracket, l.h., dowel 3/16" x 7/8"	30	J-5182	Pivoting front guide holder, auxiliary, locating screw lock nut	30
			J-5182	Pivoting front guide holder, auxiliary, stop screw nut	30
			J-5229	Pivoting front guide holder, auxiliary, assembled	30
			J-5234	Pivoting front guide holder, auxiliary, locating screw	30
			J-5248	Pivoting front guide holder, auxiliary, fulcrum bracket, r.h.	30
			J-5249	Pivoting front guide holder, auxiliary, fulcrum bracket, l.h.	30
			J-5384	Pivoting front guide holder, auxiliary, bumper	30
			J-5503	Escapement verge plunger, auxiliary, tappet, upper	30
			J-5561	Pivoting front guide holder, auxiliary, handle	30
			J-5563	Pivoting front guide holder, auxiliary, handle screw 5-40 x 3/8"	30
			J-6179	Pivoting front guide holder, auxiliary, fulcrum bracket, l.h.	30

Please Give Model and Serial Number When Ordering



*Used in Position 17 only.

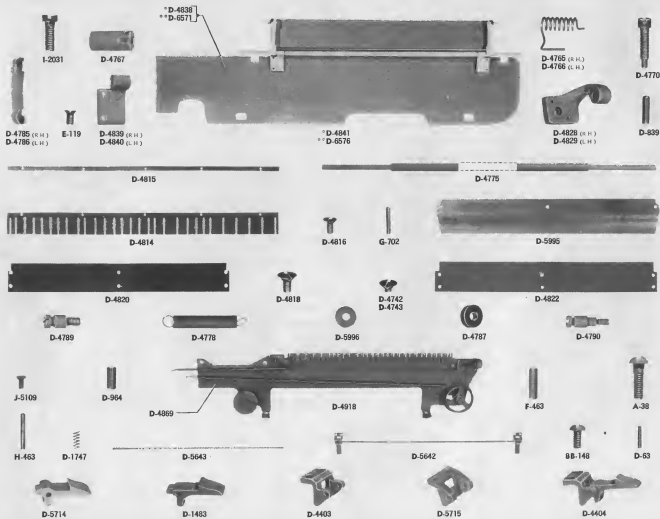
Assembling Mechanism

Model 30

Assembler Entrance, Auxiliary, Upper 215

88-134	Escapement verge plunger, auxiliary, tappet, lower, push rod stop bar guide dowel 1/8" x 3/8"	30	G-3398	Assembler entrance, auxiliary, upper, adjusting screw lock nut 1/4"-24 x 3/8"	30
D-866	Assembling guide, auxiliary, lower, extension holder screw 10-32 x 7/8"	30	G-3398	Assembler entrance, auxiliary, upper, stop adjusting screw lock nut 1/4"-24 x 3/8"	30
D-979	Assembler entrance, auxiliary, upper, side plate, upper, screw 10-32 x 3/8"	30	H-3241	Assembling guide, auxiliary, intermediate, locking rod clamp spacing washer	30
D-1231	Assembling guide, auxiliary, lower, extension holder	30	H-3241	Assembling guide, auxiliary, lower, extension holder screw washer	30
D-4708	Assembler entrance, auxiliary, upper, connecting lever pin 3/16" x 1"	30	I-2031	Assembler entrance, auxiliary, upper, stop bracket screw 10-32 x 1/2"	30
D-4772	Assembler entrance, auxiliary, upper, shaft	30	I-5811	Assembler entrance, auxiliary, upper, connecting link, upper, nut 5/16"-24 x 1/2"	30
D-4780	Assembler entrance, auxiliary, upper	30	J-794	Escapement verge plunger, auxiliary, tappet, lower, push rod retaining strip screw 4-48 x 3/8"	30
D-4781	Assembler entrance, auxiliary, upper, side plate, r.h.	30	J-1228	Assembler entrance, auxiliary, upper, balance spring hook nut 10-32 x 5/16"	30
D-4782	Assembler entrance, auxiliary, upper, side plate, l.h.	30	J-1233	Assembler entrance, auxiliary, upper, stop clamp plate screw 10-32 x 1/2"	30
D-4792	Assembler entrance, auxiliary, upper, shaft collar	30	J-5109	Assembling guide, auxiliary, lower, extension screw 3-48 x 7/32"	30
D-4793	Assembler entrance, auxiliary, upper, side plate, lower, screw 10-32 x 1/4"	30	J-5111	Assembling guide, auxiliary, lower, extension holder	30
D-4806	Assembler entrance, auxiliary, upper, stop bracket, r.h.	30	J-5112	Assembling guide, auxiliary, lower, extension	30
D-4807	Assembler entrance, auxiliary, upper, stop bracket, l.h.	30	J-5113	Assembling guide, auxiliary, lower, extension No. 17	30
D-4808	Assembler entrance, auxiliary, upper, stop adjusting screw 1/4"-24 x 13/16"	30	J-5114	Assembling guide, auxiliary, lower, extension and holder, assembled	30
D-4809	Assembler entrance, auxiliary, upper, stop clamp plate	30	J-5120	Assembling guide, auxiliary, intermediate, locking rod	30
D-4811	Assembler entrance, auxiliary, upper, stop	30	J-5156	Escapement verge plunger, auxiliary, tappet, lower, push rod	30
D-4812	Assembler entrance, auxiliary, flexible buffer, lower	30	J-5231	Escapement verge plunger, auxiliary, tappet, lower, push rod stop bar	30
D-4813	Assembler entrance, auxiliary, upper, assembled	30	J-5232	Escapement verge plunger, auxiliary, tappet, lower, push rod stop bar guide, r.h.	30
D-4964	Assembler entrance, auxiliary, upper, shaft collar pin	30	J-5233	Escapement verge plunger, auxiliary, tappet, lower, push rod stop bar guide, l.h.	30
D-5158	Assembler entrance, auxiliary, flexible buffer, lower, clamping strip	30	J-5236	Escapement verge plunger, auxiliary, tappet, lower, push rod retaining strip	30
D-5250	Assembler entrance, auxiliary, upper, connecting lever	30	J-5239	Assembler entrance, auxiliary, flexible buffer, lower, screw 3-48 x 1/4"	30
D-6269	Assembler entrance, auxiliary, upper, lever	30	J-5240	Escapement verge plunger, auxiliary, tappet, lower, push rod stop bar, assembled	30
D-6291	Assembler entrance, auxiliary, upper, balance spring hook	30	J-5305	Assembling guide, auxiliary, intermediate, assembled, No. 1	30
D-6294	Assembler entrance, auxiliary, upper, shift connecting link	30	J-5307	Assembling guide, auxiliary, intermediate, assembled, No. 2 to 17, 19 to 25, 27, 28, 31, 32, 33	30
D-6320	Assembler entrance, auxiliary, upper, shift connecting link	30	J-5309	Assembling guide, auxiliary, intermediate, assembled, Nos. 18, 28, 29, 30, 34, 35	30
D-6327	Assembler entrance, auxiliary, upper, shift connecting link lever and shaft, assembled	30	J-5496	Assembling guide, auxiliary, intermediate, locking rod clamp lock washer	30
D-6392	Assembler entrance, auxiliary, upper, shift connecting link, assembled	30	J-5498	Escapement verge plunger, auxiliary, tappet, lower, push rod retaining strip screw lock washer	30
D-6582	Assembling guide, auxiliary, lower, extension holder screw 10-32 x 9/16"	30	J-5500	Assembling guide, auxiliary, intermediate, locking rod clamp	30
E-84	Assembler entrance, auxiliary, upper, pin 3/16" x 1 3/16"	30	J-5501	Assembling guide, auxiliary, intermediate, locking rod clamp screw 10-32 x 7/16"	30
E-4605	Escapement verge plunger, auxiliary, tappet, lower, push rod stop bar guide screw lock washer	30			
F-1806	Escapement verge plunger, auxiliary, tappet, lower, push rod stop bar guide screw 5-40 x 3/6"	30			
G-181	Assembler entrance, auxiliary, upper, side plate, r.h., dowel 5/32" x 21/64"	30			
G-181	Assembler entrance, auxiliary, upper, side plate, l.h., dowel 5/32" x 21/64"	30			
G-1934	Assembler entrance, upper, auxiliary, shaft collar pin 5/32" x .896"	30			
G-2852	Escapement verge plunger, auxiliary, tappet, lower, push rod stop bar guide screw lock washer	30			

Please Give Model and Serial Number When Ordering



*To Serial No. 61469.
 **From Serial No. 61470.

Assembling Mechanism

Model 30

Assembler Entrance, Auxiliary, Lower 217

A- 38 Assembler entrance plate, auxiliary, screw 14-24 x 3/4"	30	D-4828 Assembler entrance, auxiliary, cover hinge bracket, r.h.	30
8B-148 Matrix delivery belt supporting plate, auxiliary, screw	30	D-4829 Assembler entrance, auxiliary, cover hinge bracket, l.h.	30
8B-148 Assembler entrance cover, auxiliary, latch screw 8-32 x 5/16"	30	D-4838 Assembler entrance, auxiliary, cover	30
D- 63 Assembler entrance cover, auxiliary, latch pin	30	D-4839 Assembler entrance, auxiliary, cover hinge, r.h.	30
D- 107 Matrix delivery belt idle pulley, auxiliary, large, stud washer	30	D-4840 Assembler entrance, auxiliary, cover hinge, l.h.	30
D- 839 Assembler entrance, auxiliary, cover hinge bracket, r.h. and l.h., dowel 1/8" x 16/32"	30	D-4841 Assembler entrance, auxiliary, cover and hinge, assembled	30
D- 964 Assembler entrance, auxiliary, lower, extension holder dowel 5/32" x 3/8"	30	D-4864 Matrix delivery belt supporting plate, auxiliary, assembled	30
D-1483 Assembler entrance cover, auxiliary, latch	30	D-4867 Matrix guide, auxiliary, assembled	30
D-1747 Assembler entrance cover, auxiliary, latch spring	30	D-4868 Assembler entrance plate, auxiliary	30
D-2556 Matrix delivery belt idle pulley, auxiliary, large, stud collar	30	D-4869 Matrix delivery belt idle pulley, auxiliary, small (use with D-4868)	30
D-4403 Assembler entrance cover, auxiliary, latch bracket	30	D-4918 Assembler entrance plate, auxiliary, assembled	30
D-4404 Assembler entrance cover, auxiliary, latch, assembled	30	D-5411 Matrix delivery belt idle pulley, auxiliary, large, stud	30
D-4742 Assembler entrance, auxiliary, buffer supporting plate screw, center, 4-48 x 7/32"	30	D-5413 Matrix delivery belt idle pulley, auxiliary, large	30
D-4743 Assembler entrance, auxiliary, buffer supporting plate screw 4-48 x 1/8"	30	D-5642 Assembler entrance cover, auxiliary, latch, assembled	30
D-4765 Assembler entrance cover, auxiliary, hinge spring, r.h.	30	D-5643 Assembler entrance cover, auxiliary, latch shaft	30
D-4766 Assembler entrance cover, auxiliary, hinge spring, l.h.	30	D-5714 Assembler entrance cover, auxiliary, latch	30
D-4767 Assembler entrance cover, auxiliary, hinge spring ferrule	30	D-5715 Assembler entrance cover, auxiliary, latch bracket	30
D-4770 Assembler entrance cover, auxiliary, hinge spring ferrule screw	30	D-5695 Assembler entrance, auxiliary, buffer plate	30
D-4775 Assembler entrance cover, auxiliary, hinge shaft	30	D-5996 Assembler entrance, auxiliary, buffer roll	30
D-4778 Assembler entrance, auxiliary, buffer spring	30	D-6571 Assembler entrance, auxiliary, cover	30
D-4785 Assembler entrance, auxiliary, buffer hinge, r.h.	30	D-6576 Assembler entrance, auxiliary, cover and hinge, assembled	30
D-4786 Assembler entrance, auxiliary, buffer hinge, l.h.	30	D-7006 Assembler entrance plate, auxiliary	30
D-4787 Assembler entrance, auxiliary, buffer roll	30	D-7060 Matrix delivery belt idle pulley, auxiliary, small, assembled	30
D-4789 Assembler entrance, auxiliary, buffer spring stud	30	D-7061 Matrix delivery belt idle pulley, auxiliary, small, stud	30
D-4790 Assembler entrance, auxiliary, buffer roll stud	30	E- 119 Assembler entrance, auxiliary, cover hinge screw 6-48 x 1/4"	30
D-4814 Assembler entrance plate, auxiliary, buffer	30	E- 165 Matrix delivery belt idle pulley, auxiliary, small, stud nut	30
D-4815 Assembler entrance plate, auxiliary, buffer clamp bar	30	E- 165 Matrix delivery belt idle pulley, auxiliary, large, stud nut	30
D-4816 Assembler entrance plate, auxiliary, buffer clamp bar screw 3-48 x 5/16"	30	F- 463 Assembler entrance plate, auxiliary, dowel 3/16" x 5/8"	30
D-4818 Assembler entrance, auxiliary, buffer screw 5-40 x 1/4"	30	G- 119 Matrix guide screw	30
D-4820 Assembler entrance, auxiliary, buffer	30	G- 702 Assembler entrance cover, auxiliary, hinge shaft pin 3/32" x 9/16"	30
D-4822 Assembler entrance, auxiliary, buffer supporting plate	30	H- 352 Matrix delivery belt idle pulley, auxiliary, small, stud washer	30
		H- 463 Assembler entrance cover, auxiliary, latch pin 3/32" x 3/4"	30
		I-2031 Assembler entrance, auxiliary, cover hinge bracket, r.h. and l.h., screw 10-32 x 1/2"	30
		J-5109 Assembling guide, auxiliary, lower, screw 3-48 x 7/32"	30

Please Give Model and Serial Number When Ordering



D-5413



D-4864



D-107



H-352

D-1903 (R, H)
D-5216 (L, H)

D-2736



J-179



J-115



BB-148



D-2556



E-165



D-4865



D-338



D-4867



G-119

D-4409
D-4460

D-5411



J-5365



G-2615

J-5241 (R, H)
J-5242 (L, H)

D-2245

D-4869
D-5417

J-5224



H-1768

*Assembling Guide, Auxiliary, Lower, See Opposite Page for Part Numbers.

Assembling Mechanism

Model 30

Assembler Entrance, Auxiliary, Lower 219

8B-148	Matrix delivery belt supporting plate, auxiliary, screw 6-32 x 5/16"	30	D-5413	Matrix delivery belt idle pulley, auxiliary, large (with Oilite bearing)	30
D-107	Matrix delivery belt idle pulley, auxiliary, large, stud washer	30	D-5417	Matrix delivery belt idle pulley, auxiliary, small (with Oilite bearing)	30
D-338	Matrix guide, auxiliary, extension rivet	30	E-165	Matrix delivery belt idle pulley, auxiliary, large stud nut 3/8"-16 x 5/8"	30
D-1903	Matrix guide, auxiliary, bracket, r.h.	30	E-165	Matrix delivery belt idle pulley, auxiliary, small stud nut 3/8"-16 x 5/8"	30
D-2245	Matrix delivery belt idle pulley, auxiliary, small, stud wick	30	G-119	Matrix guide screw 6-48 x 1/4"	30
D-2245	Matrix delivery belt idle pulley, auxiliary, large, stud wick	30	G-2615	Escapement verge plunger, auxiliary, push rod stop bar guide pivot rivet	30
D-2556	Matrix delivery belt idle pulley, auxiliary, large, stud collar	30	H-352	Matrix delivery belt idle pulley, auxiliary, small stud washer	30
D-2736	Matrix delivery belt supporting plate, auxiliary, bracket rivet	30	H-1765	Escapement lever, auxiliary, guide screw	30
D-4409	Matrix delivery belt idle pulley, auxiliary, large, stud, assembled (with D-2948 oil wick)	30	J-115	Matrix delivery belt supporting plate, auxiliary, bracket	30
D-4460	Matrix delivery belt idle pulley, auxiliary, small, stud, assembled (with D-2245 oil wick)	30	J-179	Matrix guide bracket rivet	30
D-4864	Matrix delivery belt supporting plate, auxiliary, assembled	30	J-5224	Escapement lever, auxiliary, guide	30
D-4865	Matrix guide, auxiliary, extension	30	J-5241	Escapement verge plunger, auxiliary, push rod stop bar guide pivot, r.h.	30
D-4867	Matrix guide, auxiliary, assembled	30	J-5242	Escapement verge plunger, auxiliary, push rod stop bar guide pivot, l.h.	30
D-4869	Matrix delivery belt idle pulley, auxiliary, small (used with D-4460)	30	J-5365	Escapement verge plunger, auxiliary, push rod stop bar guide retainer, assembled	30
D-5216	Matrix guide, auxiliary, bracket, l.h.	30			
D-5411	Matrix delivery belt idle pulley, auxiliary, large, stud (used with D-5413)	30			
D-5411	Matrix delivery belt idle pulley, auxiliary, small, stud (used with D-5417)	30			

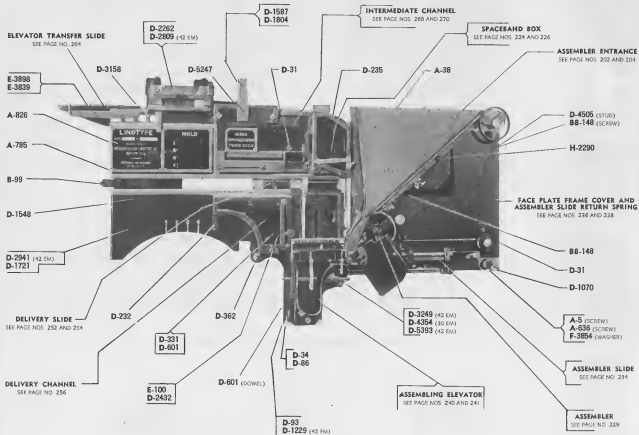
Assembling Guides, Lower

Guide Numbers	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
*Part No.	J-5256	J-5257	J-5258	J-5259	J-5260	J-5261	J-5577	J-5577	J-5267	J-5579	J-5270	J-5579	J-5579	J-5273	J-5579
**Part No.	J-5975	J-5975	J-5977	J-5978	J-5979	J-5980	J-5982	J-5983	J-5984	J-5986	J-5987	J-5989	J-5989	J-5992	J-5994
Guide Numbers	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
*Part No.	J-5276	J-5581	J-5279	J-5581	J-5282	J-5581	J-5583	J-5267	J-5583	J-5290	J-5585	J-5293	J-5585	J-5296	
**Part No.	J-5995	J-5997	J-5998	J-6000	J-6001	J-6003	J-6005	J-6006	J-6008	J-6009	J-6010	J-6011	J-6013	J-6014	

*Used on Machines up to Serial No. 54336.

**Used on Machines from Serial No. 54337.

Please Give Model and Serial Number When Ordering



Assembling Mechanism

Models 5-29-30-31-32

Face Plate, Assembled 221

A- 5	Face plate screw, r.h. (30 em) 5/8"-11 x 2 1/2"	5-29-30-31-32
A- 38	Assembler entrance plate screw 1/4"-24 x 3/4"	5-29-30-31-32
A- 636	Face plate screw, r.h. (42 em) 5/8"-11 x 2 3/8"	5-29-30-31-32
A- 785	Combination name plate and mold name plate holder rivet	5-29-30-31-32
A- 826	Combination name plate and mold name plate holder, assembled	5-29-30-31-32
B- 99	Mold disk shield screw 8-32 x 3/8"	5-29-30-31-32
BB-148	Face plate frame cover screw 8-32 x 5/16"	5-29-30-31-32
D- 31	Assembler plate screw 3/8"-16 x 3/4"	5-29-30-31-32
D- 31	Intermediate channel back plate screw 3/8"-18 x 3/4"	5-29-30-31-32
D- 34	Assembling elevator gib, l.h., screw 8-32 x 1/2"	5-29-30-31-32
D- 86	Assembling elevator gib, l.h., screw (42 em) 8-32 x 9/32"	29-30-31-32
D- 93	Assembling elevator gib, l.h. (30 em)	5-29-30-31-32
D- 232	Mold disk shield support screw	5-29-30-31-32
D- 235	Spaceband box screw 3/8"-16 x 5/8"	5-29-30-31-32
D- 331	Delivery channel dowel 1/8" x 9/16"	5-29-30-31-32
D- 361	Face plate screw, upper, l.h.	5-29-30-31-32
D- 362	Face plate screw, lower, l.h. 3/8"-16 x 2 5/8"	5-29-30-31-32
D- 601	Delivery channel dowel, short (42 em) 1/8" x 13/32"	29-30-31-32
D- 601	Assembling elevator gib dowel 1/8" x 13/32"	5-29-30-31-32
D-1070	Face plate dowel, r.h. 1/4" x 1 15/16"	5-29-30-31-32
D-1229	Assembling elevator gib, l.h. (42 em)	29-30-31-32
D-1548	Delivery slide stop	5-29-30-31-32
D-1587	Second elevator guide, lower	5 31-32
D-1721	Mold disk shield (30 em)	5-29-30-31-32
D-1804	Second elevator guide, lower	29-30
D-2262	First elevator slide guide, assembled (30 em)	5-29-30-31-32
D-2432	Delivery channel screw, short (42 em) 3/8"-16 x 19/32"	29-30-31-32
D-2809	First elevator slide guide, assembled (42 em)	29-30-31-32

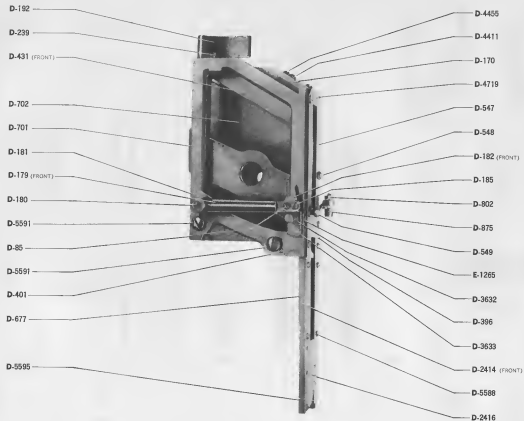
D-2941	Mold disk shield, assembled (42 em)	29-30-31-32
D-3158	Elevator transfer slide and finger, assembled	5-29-30-31-32
D-3249	Assembler slide roll bracket and finger, assembled (42 em)	29-30-31-32
D-4354	Assembler slide roll bracket and finger, assembled	5-29-30-31-32
D-4505	Face plate frame cover stud	5-29-30-31-32
D-5247	Second elevator guide, lower, screw	29-30-31-32
D-5393	Assembler slide roll bracket and finger, assembled (42 em) (use from serial No. 52397)	29-30-31-32
E- 100	Delivery channel screw 3/8"-16 x 3/4"	5-29-30-31-32
F-3854	Face plate screw, r.h., washer	5-29-30-31-32
H-2290	Assembler entrance plate screw 1/4"-24 x 5/8"	5-29-30-31-32

Parts Not Illustrated

D-3205	Face plate frame (30 em)	5-29-30-31-32
D-3215	Face plate frame (42 em)	29-30-31-32
D-4587	Face plate, assembled (30 em)	5 31
D-4612	Face plate, assembled (42 em)	31
D-4915	Face plate, assembled (30 em)	30
D-4980	Face plate, assembled (30 em)	29
D-5055	Face plate, assembled (42 em)	29
D-5061	Face plate, assembled (42 em)	30
D-5135	Face plate, assembled (72-00) (30 em)	29
D-5136	Face plate, assembled (72-00) (30 em)	30
D-5190	Face plate, assembled (72-00) (42 em)	30
D-5191	Face plate, assembled (72-00) (42 em)	29
D-5220	Face plate, assembled (30 em)	32
D-5230	Face plate, assembled (42 em)	32
D-6432	Face plate frame (30 em) (use from serial No. 57100)	5-29-30-31-32
D-6976	Face plate frame (42 em) (use from serial No. 57100)	29-30-31-32

Please Give Model and Serial Number When Ordering





D-2418

Check Parts by Referring to Detail Pages.



D-783



D-782



D-85



D-183



D-182



D-462



D-497



BB-134



D-401



D-235



D-164



D-802



D-875



D-547



D-5898



D-549



D-167

D-431



D-5591



D-2417



D-2416



D-186



D-4719



D-548



D-5588



B-96



D-5696



D-177



D-396



D-677



D-2417



D-2416



D-186



D-185



D-239



D-402



D-487

D-2414
(FRONT)D-2415
(BACK)

D-192



D-194



D-332



D-403



D-170



E-1265



D-3635



D-3634



D-193



D-34



D-5590



BB-148



D-5589

B- 96 Spaceband chute plate, long, screw, round head 4-48 x 1/4"	5-29-30-31-32	D- 497 Spaceband box pawl lever and spring, assembled	5-29-30-31-32
BB-134 Spaceband box plate, front, top rail dowel 1/8" x 3/8"	5-29-30-31-32	D- 547 Spaceband chute hinge plate	5-29-30-31-32
BB-134 Spaceband box plate, back, top rail dowel 1/8" x 3/8"	5-29-30-31-32	D- 548 Spaceband chute hinge plate banking screw	5-29-30-31-32
BB-148 Spaceband box center bar screw 8-32 x 5/16"	5-29-30-31-32	D- 549 Spaceband chute hinge plate handle	5-29-30-31-32
D- 34 Spaceband box center bar bracket screw 8-32 x 1/2"	5-29-30-31-32	D- 677 Spaceband chute plate, short	5-29-30-31-32
D- 85 Spaceband box pawl spring screw 4-48 x 3/16"	5-29-30-31-32	D- 782 Spaceband box plate, front, assembled	5-29-30-31-32
D- 164 Spaceband box plate, front, screw 1/4"-24 x 16/18"	5-29-30-31-32	D- 783 Spaceband box plate, back, assembled	5-29-30-31-32
D- 167 Spaceband box plate, back, top rail	5-29-30-31-32	D- 802 Spaceband key lever adjusting screw lock nut 8-32 x 5/16"	5-29-30-31-32
D- 170 Spaceband box center bar bracket	5-29-30-31-32	D- 875 Spaceband key lever adjusting screw	5-29-30-31-32
D- 177 Spaceband box top rail screw 4-48 x 3/16"	5-29-30-31-32	D-2414 Spaceband chute side, front	5-29-30-31-32
D- 177 Spaceband chute plate, long, screw, flat head 4-48 x 3/16"	5-29-30-31-32	D-2415 Spaceband chute side, back	5-29-30-31-32
D- 177 Spaceband chute plate, short, screw 4-48 x 3/16"	5-29-30-31-32	D-2416 Spaceband chute plate, long	5-29-30-31-32
D- 182 Spaceband box pawl spring, front	5-29-30-31-32	D-2417 Spaceband chute, assembled	5-29-30-31-32
D- 183 Spaceband box pawl spring, back	5-29-30-31-32	D-3634 Spaceband box lock stud and plate, assembled	5-29-30-31-32
D- 185 Spaceband box pawl lifting screw	5-29-30-31-32	D-3635 Spaceband box lock friction washer	5-29-30-31-32
D- 186 Spaceband box pawl	5-29-30-31-32	D-4719 Spaceband chute hinge plate screw	5-29-30-31-32
D- 192 Spaceband lever pawl latch	5-29-30-31-32	D-5588 Spaceband chute plate, long, screw, round head 4-48 x 1/4"	5-29-30-31-32
D- 193 Spaceband lever pawl latch screw	5-29-30-31-32	D-5589 Spaceband box center bar screw 8-32 x 5/16"	5-29-30-31-32
D- 194 Spaceband lever pawl latch spring	5-29-30-31-32	D-5590 Spaceband box center bracket screw 8-32 x 1/2"	5-29-30-31-32
D- 235 Spaceband box screw 8/8"-18 x 5/8"	5-29-30-31-32	D-5591 Spaceband box plate, front, screw 1/4"-24 x 15/18"	5-29-30-31-32
D- 239 Spaceband lever pawl latch stop pin 3/32" x 3/8"	5-29-30-31-32	D-5595 Spaceband box top rail screw 4-48 x 3/16"	5-29-30-31-32
D- 332 Spaceband box plate, front, dowel 1/8" x 3/4"	5-29-30-31-32	D-5595 Spaceband chute plate, short, screw 4-48 x 3/16"	5-29-30-31-32
D- 396 Spaceband chute dowel .068" x 1/4"	5-29-30-31-32	D-5595 Spaceband chute plate, long, screw, flat head 4-48 x 3/16"	5-29-30-31-32
D- 401 Spaceband box dowel 1/8" x 7/16"	5-29-30-31-32	D-5998 Spaceband chute hinge plate and handle, assembled	5-29-30-31-32
D- 402 Spaceband box center bar pin .095" x 37/64"	5-29-30-31-32	E-1265 Spaceband box lock set screw	5-29-30-31-32
D- 403 Spaceband box center bar bracket dowel 1/16" x 27/64"	5-29-30-31-32		
D- 431 Spaceband box plate, front, top rail	5-29-30-31-32		
D- 462 Spaceband box pawl lever, assembled	5-29-30-31-32		
D- 487 Spaceband box center bar, assembled	5-29-30-31-32		

Parts Not Illustrated

D-2418 Spaceband box, assembled 5-29-30-31-32

Please Give Model and Serial Number When Ordering



D-181



D-179



H-3221



H-3921



G-162



G-416



D-4411



D-178



H-4795



D-99



D-180

H-5689 (12 90)
H-874 (90)

H-2889 (12 90)



H-1240



J-2883



A-38



D-4455



H-3224



F-463



H-679



G-182



H-3795



D-498

Assembling Mechanism

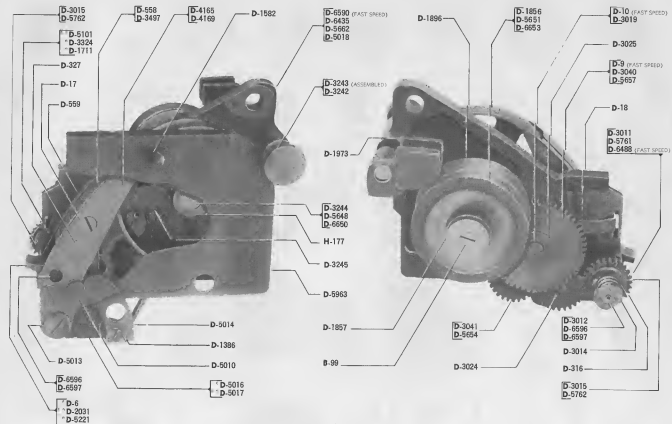
Models 5-29-30-31-32

Spaceband Box, Levers 227

A- 38	Spaceband key lever bracket screw 14-24 x 3/4"	31-32	H- 679	Spaceband key lever bracket	29-30
D- 99	Spaceband key lever hinge pin set screw 8-32 x 3/8"	31-32	H- 874	Spaceband key lever, assembled	5-29-30-31-32
D- 178	Spaceband box pawl lever, back	5-29-30-31-32	H-1240	Spaceband key lever hinge pin	5-29-30-31-32
D- 179	Spaceband box pawl lever, front	5-29-30-31-32	H-2889	Spaceband key lever, assembled (73-90)	29-30
D- 180	Spaceband box pawl lever hinge pin	5-29-30-31-32	H-3221	Spaceband lever guide	31-32
D- 181	Spaceband box pawl lever hinge pin pin 1/8" x 5/8"	5-29-30-31-32	H-3224	Assembler entrance plate guide and spaceband lever guide screw	31-32
D- 498	Spaceband lever key rod pin	5-29-30-31-32	H-3795	Spaceband key lever bracket	5 31-32
D-4411	Spaceband box center bar screw 8-32 x 5/16"	5-29-30-31-32	H-3921	Spaceband lever guide	29-30
D-4455	Spaceband box center bracket screw 8-32 x 1/2"	5-29-30-31-32	H-4795	Spaceband lever key rod screw	29-30
F- 463	Spaceband key lever bracket dowel 3/16" x 5/8"	29-30	H-5689	Spaceband key lever, assembled	29-30
G- 152	Spaceband key lever bracket screw 3/8"-16 x 1"	29-30	J-2883	Spaceband lever guide screw 5-40 x 3/18"	29-30
G- 162	Spaceband lever guide dowel 3/32" x .162"	29-30			
G- 416	Spaceband key lever hinge pin set screw 8-48 x .325"	29-30			

Please Give Model and Serial Number When Ordering





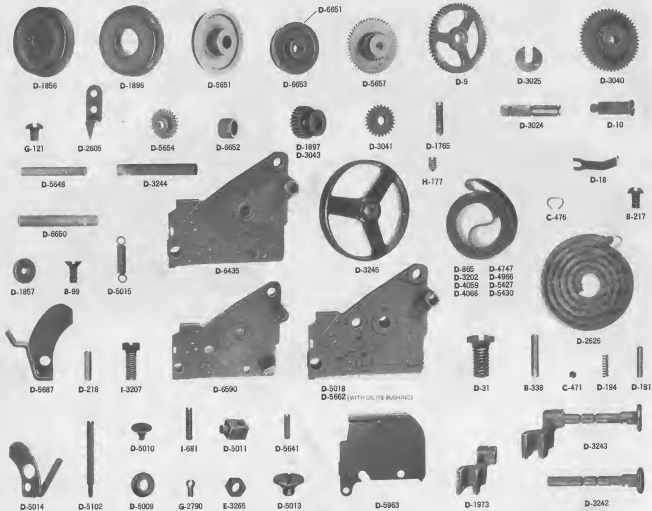
Assembled

- D-5019
 - D-6437 (From Serial No. 57100)
 - D-6591 (Fast Speed)
 - D-5020
 - D-6436 (From Serial No. 57100)
- Models 5-29-31.
- Models 29-30-32.

* Small Stor.

** Large Stor.

Check Parts by Referring to Detail Pages.



Assembling Mechanism

Models 5-29-30-31-32

Assembler 231

A- 99	Assembler loose pulley washer screw 8-32 x 3/8"	5-29-30-31-32	D-5010	Assembler cover retaining lever stud roll	5-29-30-31-32
B- 217	Assembler matrix catch spring screw 8-32 x 1/4"	5-29-30-31-32	D-5011	Assembler cover stop screw block	5-29-30-31-32
B- 338	Assembler driving belt shifter locating pin 5/32" x 7/8"	5-29-30-31-32	D-5013	Assembler cover screw	5-29-30-31-32
C- 471	Assembler driving belt shifter ball	5-29-30-31-32	D-5014	Assembler cover retaining lever	29-30-31-32
C- 476	Assembler driving belt hook	5-29-30-31-32	D-5015	Assembler cover retaining lever spring	5-29-30-31-32
D- 9	Assembler star, intermediate, gear (fast speed, small star) (90 character)	5-29 31	D-5018	Assembler plate (with D-5012 cover)	29-30-31-32
D- 10	Assembler star, intermediate, gear stud (fast speed, small star) (90 character)	5-29 31-32	D-5102	Assembler cover retaining lever guide	5-29-30-31-32
D- 18	Assembler matrix catch spring	5-29 30-31-32	D-5427	Matrix delivery belt (composition) length 88 7/8"	30
D- 31	Assembler plate screw	29-30-31-32	D-5430	Matrix delivery belt (composition) length 99 1/4"	20
D- 181	Assembler driving belt shifter pin 1/8" x 5/8"	5-29-30-31-32	D-5641	Assembler cover stop screw	5-29-30-31-32
D- 194	Assembler driving belt shifter spring	5-29-30-31-32	D-5648	Assembler pulley shaft (fast speed, small star)	5-29-30-31-32
D- 218	Assembler plate dowel 1/8" x 1/2"	5-29-30-31-32	D-5651	Assembler loose pulley (fast speed, small star)	5-29-30-31-32
D- 865	Matrix delivery belt (black leather) length 43 3/4"	5 31	D-5654	Assembler star idle pinion, assembled	5-29-30-31-32
D-1765	Assembler pulley gear set screw 10-32 x 3/4"	5-29-30-31-32	D-5657	Assembler star intermediate gear, assembled	5-29-30-31-32
D-1856	Assembler loose pulley	29-30-31-32	D-5662	Assembler plate	5-29-30-31-32
D-1857	Assembler loose pulley washer	5-29-30-31-32	D-5687	Assembler cover retaining lever	5-29-30-31-32
D-1896	Assembler pulley	5-29-30-31-32	D-5963	Assembler cover, assembled	5-29-30-31-32
D-1897	Assembler pulley gear (fast speed, small star) (90 character)	5-29 31	D-6435	Assembler plate	5-29-30-31-32
D-1973	Assembler driving belt shifter	5-29-30-31-32	D-6590	Assembler plate, assembled (fast speed, small star)	5-29 31
D-2605	Assembler slide pointer	29-30-31-32	D-6650	Assembler pulley shaft	5-29-30-31-32
D-2626	Assembler driving belt, assembled	5-29-30-31-32	D-6651	Assembler loose pulley	5-29-30-31-32
D-3024	Assembler star idle pinion stud	5-29-30-31-32	D-6652	Assembler loose pulley bushing	5-29-30-31-32
D-3025	Assembler star idle pinion stud spring washer	5-29-30-31-32	D-6653	Assembler loose pulley, assembled	5-29-30-31-32
D-3040	Assembler star, intermediate, gear, assembled	29-30-31-32	E-3265	Assembler cover stop screw nut 8-32 x 1/4"	5-29-30-31-32
D-3041	Assembler star idle pinion and hub, assembled	29-30-31-32	G- 121	Assembler slide pointer screw 8-48 x 5/32"	29-30-31-32
D-3043	Assembler pulley gear	5-29-30-31-32	G- 142	Assembler slide (reverse) entrance scale pointer screw	29-30-31-32
D-3202	Matrix delivery belt (black leather) length 94"	32	G-2790	Assembler cover retaining lever spring eye	5-29-30-31-32
D-3242	Assembler driving belt shifter rod	5-29-30-31-32	H- 177	Matrix delivery belt driving pulley set screw 8-32 x 1/4"	5-29-30-31-32
D-3243	Assembler driving belt shifter, assembled	5-29-30-31-32	I- 681	Assembler cover stop screw 8-32 x 11/16"	29-30-31-32
D-3244	Assembler pulley shaft	29-30-31-32	I-3207	Assembler plate screw, lower	5-29-30-31-32
D-3245	Matrix delivery belt driving pulley	5-29-30-31-32			
D-4059	Matrix delivery belt (composition) length 43 3/4"	31			
D-4066	Matrix delivery belt (composition) length 94 1/4"	32			
D-4747	Matrix delivery belt (black leather) length 88 7/8"	30			
D-4966	Matrix delivery belt (black leather) length 39 1/4"	29			
D-5009	Assembler cover retaining lever stud	5-29-30-31-32			
			D-5019	Assembler, assembled (small assembler star)	5-29 31
			D-5020	Assembler, assembled (large assembler star)	29-30-31-32
			D-6436	Assembler, assembled (large assembler star)	29-30-31-32
			D-6437	Assembler, assembled (small assembler star)	5-29 31
			D-6591	Assembler (fast speed, small star) assembled	5-29 31

Parts Not Illustrated

Please Give Model and Serial Number When Ordering



D-3012



D-6493



D-1582



D-3011



D-1386



G-156



D-6494



D-5760 (2.024) (929)
 D-6489 (2.340) (929)
 D-6490 (2.340) (940)
 D-6491 (2.440) (1.156)
 D-6596 (2.315) (940)
 D-6597 (2.315) (1.156)

D-5770
(BACK)

D-3015



G-3875



D-3025



D-6492 (ROUND HEAD)
 D-6596 (SQUARE HEAD)



D-5763



D-316



D-6488

D-6598
D-6599

D-5761



D-5764



D-5759



D-3013



D-5762



D-3019



D-1711



D-5101



D-4169



D-4165



D-3324



D-802



F-1266



G-6396



H-177



D-5016



D-5017



D-559



D-558



D-3497



D-3014



D-6



G-1783



D-5221



D-2031



D-327

Assembling Mechanism

Models 5-29-30-31-32

Assembler 233

D- 6 Assembler star (small 1" o.d.)	29 31	D-5760 Assembler star shaft	29-30-31-32
D- 316 Assembler star pinion friction spring	5-29-30-31-32	D-5761 Assembler star pinion	5-29-30-31-32
D- 327 Assembler chute block dowel 1/8" x 7/8"	5-29-30-31-32	D-5762 Assembler star pinion friction disk	5-29-30-31-32
D- 558 Assembler chute front rail spring	29-30-31-32	D-5763 Assembler star pinion friction stud	29-30-31-32
D- 559 Assembler chute back rail spring	5-29-30-31-32	D-5764 Assembler star shaft bushing	29-30
D- 802 Assembler star shaft bushing retaining screw nut 8-32 x 5/16"	5-29-30-31-32	D-5770 Assembler star pinion friction disk, back	29-30-31-32
D-1386 Assembler cover retaining lever screw	5-29-30-31-32	D-6396 Assembler star shaft bushing retaining screw	5-29-30-31-32
D-1582 Assembler cover handle	5-29-30-31-32	D-6488 Assembler star pinion (fast speed, small star) (90 character)	5-29 31
D-1711 Assembler chute, back rail, assembled (90 character)	5-29 31	D-6489 Assembler star shaft	5-29-30-31-32
D-2031 Assembler star (large 1 3/8" o.d.)	29-30-31-32	D-6490 Assembler star shaft	5-29-30-31-32
D-3011 Assembler star pinion	29-30-31-32	D-6491 Assembler star shaft (90 character)	5-29 31
D-3012 Assembler star shaft	29-30-31-32	D-6492 Assembler star pinion friction screw	5-29-30-31-32
D-3013 Assembler star shaft bushing	29-30-31-32	D-6493 Assembler star pinion friction screw nut	5-29-30-31-32
D-3014 Assembler star pinion friction nut	29-30-31-32	D-6494 Assembler star pinion friction spring retainer	5-29-30-31-32
D-3015 Assembler star pinion friction disk	29-30-31-32	D-6595 Assembler star pinion friction screw	5-29-30-31-32
D-3019 Assembler star intermediate gear stud	5-29-30-31-32	D-6596 Assembler star shaft	5-29-30-31-32
D-3025 Assembler star intermediate gear stud spring washer	5-29-30-31-32	D-6597 Assembler star shaft (fast speed, small star) (90 character)	5-29 31
D-3324 Assembler chute back rail, assembled (with D-5221 small assembler star and D-5963 cover)	5-29 31	D-6598 Adjustable assembler star wheel shaft (slow speed) assembled	5-29-30-31-32
D-3497 Assembler chute front rail spring	5-29-30-31-32	D-6599 Adjustable assembler star wheel shaft (fast speed) assembled	5-29 31
D-4165 Assembler chute front rail, assembled	29-30-31-32	F-1266 Assembler chute front rail screw 1/4"-32 x 1 3/32"	5-29-30-31-32
D-4169 Assembler chute front rail, assembled	5-29-30-31-32	G- 156 Assembler star pinion friction stud lock screw 8-32 x 5/16"	29-30-31-32
D-5016 Assembler chute block (with D-5221 small assembler) star and D-5963 cover)	5-29 31	G-1783 Assembler chute block and back rail screw 8-32 x 1/2"	5-29-30-31-32
D-5017 Assembler chute block (with D-2031 large assembler star and D-5963 cover)	29-30-31-32	G-3875 Assembler star pinion friction screw pin .041" x 1/4"	5-29-30-31-32
D-5101 Assembler chute back rail, assembled (with D-2031 large assembler star and D-5963 cover)	29-30-31-32	H- 177 Assembler star shaft bushing set screw 8-32 x 1/4"	29-30-31-32
D-5221 Assembler star (small 1" o.d.)	5-29 31		
D-5759 Assembler star shaft bushing (fast speed, small star) (90 character)	5-29 31		

Please Give Model and Serial Number When Ordering